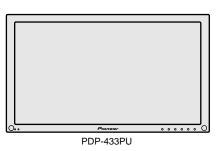
Pioneer sound.vision.soul

Service Manual



ORDER NO. ARP3143

PLASMA DISPLAY

PDP-433PU PDP-433PE PDP-433PG

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Remarks
PDP-433PU	KUC	AC120V	
PDP-433PE	WYVI6	AC220-240V	
PDP-433PE	WYVI6XK	AC220-240V	
PDP-433PG	TLDPKBR	AC110-240V	

This service manual should be used together with the following manual(s).

This product is component of system.

Component		System		Service Manual	Remarks
Plasma Display System	PDP-4330HD	PDP-433HDE	PDP-433HDG	-	
	PDP-R03U	-	-	ARP3113	
Media Receiver	-	PDP-R03E	-	ARP3148	
	-	-	PDP-R03G	ARP3149	
Plasma Display	PDP-433PU	PDP-433PE	PDP-433PG	ARP3143	Service Manual



Confirm it	
Committee	
	<u>Serial No.</u>
OO WYVI6	: \(\subseteq \subseteq \subseteq \subsete \subseteq \s
OO WYVI6XK	: □□ UK ######△△

SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

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(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible - (fusible de type rapide) et/ou - (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis.

The following precautions should be observed:

- 1. When service is required, even though the PDP UNIT an isolation transformer should be inserted between the power line and the set in safety before any service is performed.
- 2. When replacing a chassis in the set, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, adjustment and compartment covershields, isolation resistorcapacitor, etc.
- 3. When service is required, observe the original lead dress. Extra precaution should be taken to assure correct lead dress in the high voltage circuitry area.
- 4. Always use the manufacture's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacture's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
- 5. Before returning a serviced set to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the set by the manufacture has become defective, or inadvertently defeated during servicing. Therefore, the following checks should be performed for the continued protection of the customer and servicetechnician.

- 6. Perform the following precautions against unwanted radiation and rise in internal temperature.
- Always return the internal wiring to the original styling.
- Attach parts (Gascket, Ferrite Core, Ground, Rear Cover, Shield Case etc.) surely after disassembly.
- 7. Perform the following precautions for the PDP panel.
- When the front case is removed, make sure nothing hits the panel face, panel corner, and panel edge (so that the glass does not break).
- Make sure that the panel vent does not break. (Check that the cover is attached.)
- Handle the FPC connected to the panel carefully. Twisting or pulling the FPC when connecting it to the connector will cause it to peel off from the panel.
- 8. Pay attention to the following.
- When the front case is removed, infrared ray is radiated and may disturb reception of the remote control unit.
- Pay extreme caution when the front case and rear panel are removed because this may cause a high risk of disturbance to TVs and radios in the surrounding.

Leakage Current Cold Check

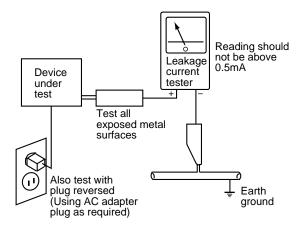
With the AC plug removed from an AC power source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC 500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (input/output terminals, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of $0.3M\Omega$ and a maximum resistor reading of $5M\Omega$. Any resistor value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into an AC power source (do not use an isolation transformer for this check).

Turn the AC power switch on.

Using a "Leakage Current Tester (Simpson Model 229 equivalent)", measure for current from all exposed metal parts of the cabinet (input/output terminals, screwheads, metal overlays, control shaft, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS **OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL** SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE SET TO THE CUSTOMER.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in PIONEER set have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \(\triangle \) on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire or other hazards.

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Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

PDP-433PU

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■ Charged Section

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The places where the commercial AC power is used without passing through the power supply transformer.

If the places are touched, there is a risk of electric shock. In addition, the measuring equipment can be damaged if it is connected to the GND of the charged section and the GND of the non-charged section while connecting the set directly to the commercial AC power supply. Therefore, be sure to connect the set via an insulated transformer and supply the current.

- 1. AC Power Cord
- 2. AC Inlet with Filter
- 3. Power Switch (S1)
- 4. Fuse (In the SW POWER SUPPLY Module)
- 5. STB Transformer and Converter Transformer (In the SW POWER SUPPLY Module)
- 6. Other primary side of the SW POWER SUPPLY Module

■High Voltage Generating Point

The places where voltage is 100V or more except for the charged places described above. If the places are touched, there is a risk of electric shock.

1. SW POWER SUPPLY Module .	(215V)
2. X DRIVE Assy	(-280V to 215V)
3. Y DRIVE Assy	(345V)
4. SCAN (A) Assy	(345V)
5. SCAN (B) Assy	(345V)
6. X CONNECTOR (A) Assy	(-280V to 215V)
7. X CONNECTOR (B) Assy	(–280V to 215V)

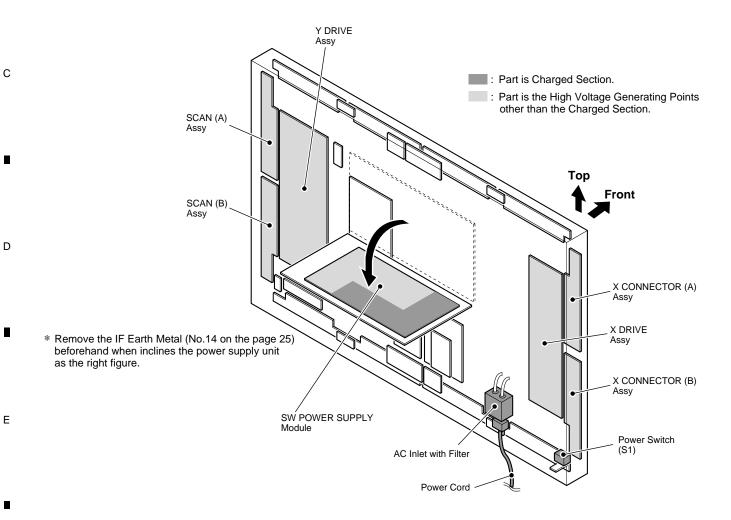


Fig.1 Charged Section and High Voltage Generating Point (Rear View)

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[Important symbols for good services]
In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely.
When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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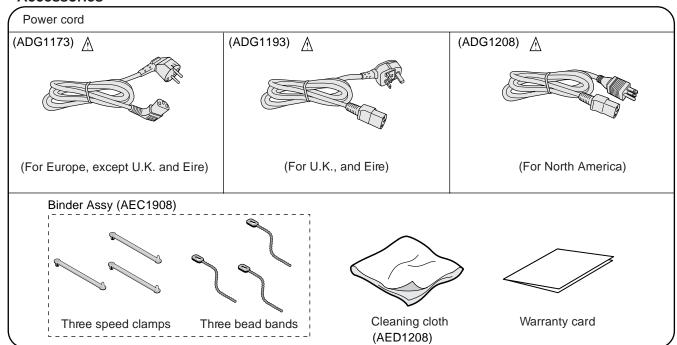
1. SPECIFICATIONS

Item	Model: PDP-433PU
Number of Pixels	1024 × 768 pixels
Audio Amplifier	12 W + 12 W (10% distortion)
Power Requirement	AC 120 V, 60 Hz, 318 W (0.6 W Standby)
Dimensions	1070 (W) \times 630 (H) \times 98 (D) mm [421/8 (W) \times 2413/16 (H) \times 37/8 (D) inch]
Weight	31.5 kg (69.4 lbs)
Accessories	Power Cord, Cleaning Cloth, Three speed clamps, Three bead bands, Warranty card

Item	Model: PDP-433PE	Model: PDP-433PG
Number of Pixels	1024 x 768 pixels	1024 x 768 pixels
Audio Amplifier	12 W + 12 W (10 % distortion)	12 W + 12 W (10 % distortion)
Power Requirement	AC 220-240 V, 50/60 Hz, 320 W (0.6 W Standby)	AC 110-240 V, 50/60 Hz, 319 W (0.8 W Standby)
Dimensions	1070 (W), 630 (H), 98 (D) mm	1070 (W), 630 (H), 98 (D) mm
Weight	31.5 kg	31.5 kg
Accessories	Power Cord, Cleaning Cloth, Three speed clamps, Three bead bands, Warranty card	Cleaning Cloth, Three speed clamps, Three bead bands,

[•] Design and specifications are subject to change without notice.

Accessories



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2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The

 ↑ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- ullet Screws adjacent to lacktriangle mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

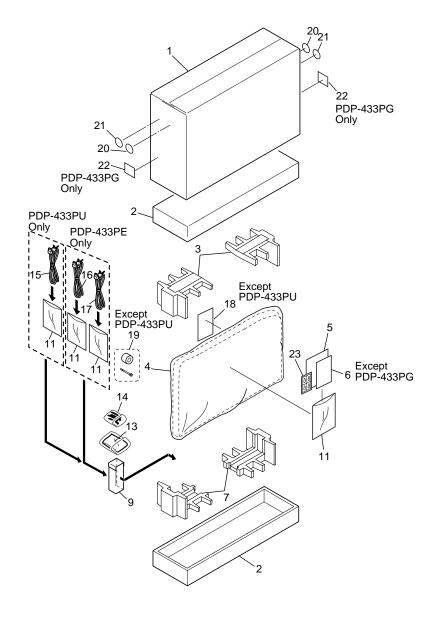
2.1 PACKING

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PACKING parts List

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Mark No.	<u>Description</u>	Part No.	<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.
1	Packing Case(43)	See Contrast table (2)		13	Wiping Cloth	AED1208
2	Carton(43)	AHD3100		14	Binder Assy	AEC1908
3	Pad(43U)	AHA2282			(Speed Clampx3, Bead Bandx3)
4	Mirror Mat	AHG1284	<u> </u>	15	Power Cord	See Contrast table (2)
5	SP Caution Sheet	ARM1218				
			<u> </u>	16	Power Cord	See Contrast table (2)
NSP 6	Warranty Card	See Contrast table (2)	<u> </u>	17	Power Cord	See Contrast table (2)
7	Pad(43L)	AHA2283		18	Caution Sheet	See Contrast table (2)
8	••••			19	Ferrite Core	See Contrast table (2)
9	Power Cord Case	See Contrast table (2)		20	Label (Blue 16)	AAX2787
10	••••					
				21	Label (Green 16)	AAX2956
11	Vinyl Bag	AHG1310		22	MIC Label	See Contrast table (2)
12	••••			23	SP Spacer	AEC1925

(2) CONTRAST TABLE

PDP-433PU/KUC, PDP-433PE/WYVI6, PDP-433PE/WYVI6XK and PDP-433PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-433PU/KUC	PDP-433PE/ WYVI6	PDP-433PE/ WYVI6XK	PDP-433PG/ TLDPKBR
	1	Packing Case(43)	AHD3115	AHD3114	AHD3138	AHD3116
NSP	6	Warranty Card	ARY1112	ARY1114	ARY1114	Not used
	9	Power Cord Case	AHC1037	AHC1037	AHC1039	AHC1037
<u> </u>	15	Power Cord	ADG1208	Not used	Not used	Not used
<u> </u>	16	Power Cord	Not used	ADG1173	ADG1173	Not used
<u> </u>	17	Power Cord	Not used	ADG1193	ADG1193	Not used
	18	Caution Sheet	Not used	ARM1213	ARM1213	ARM1213
	19	Ferrite Core	Not used	ATX1039	ATX1039	ATX1039
1	22	MIC Label	Not used	Not used	Not used	AAX2951

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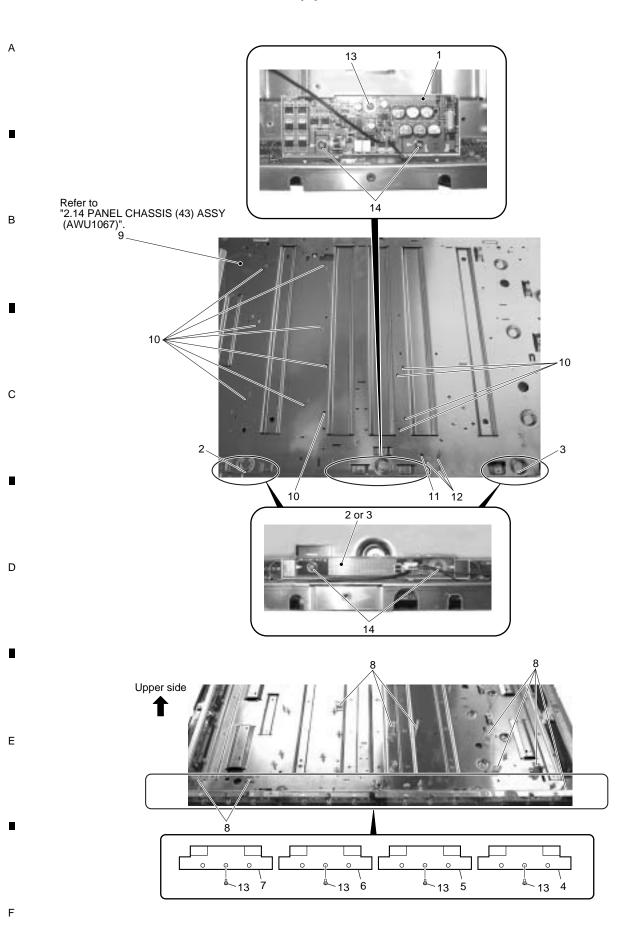
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2.2 UNDER LAYER SECTION (1)



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PDP-433PU

UNDER LAYER SECTION(1) parts List

Mark No.	<u>Description</u>	Part No.
1	ADR RESONANCE Assy	AWZ6751
2	BRIDGE C Assy	AWZ6730
3	BRIDGE D Assy	AWZ6731
NSP 4	ADR CONNECT A Assy	AWZ6678
NSP 5	ADR CONNECT B Assy	AWZ6679
NSP 6	ADR CONNECT C Assy	AWZ6680
NSP 7	ADR CONNECT D Assy	AWZ6681
8	Wire Saddle	AEC1904
NSP 9	Panel Chassis (43) Assy	AWU1067
10	Circuit Board Spacer	AEC1872
NSP 11	PCB Spacer	AEC1121
12	Circuit Board Spacer	AEC1873
13	Screw	VBB30P100FNI
14	Screw	ABA1301

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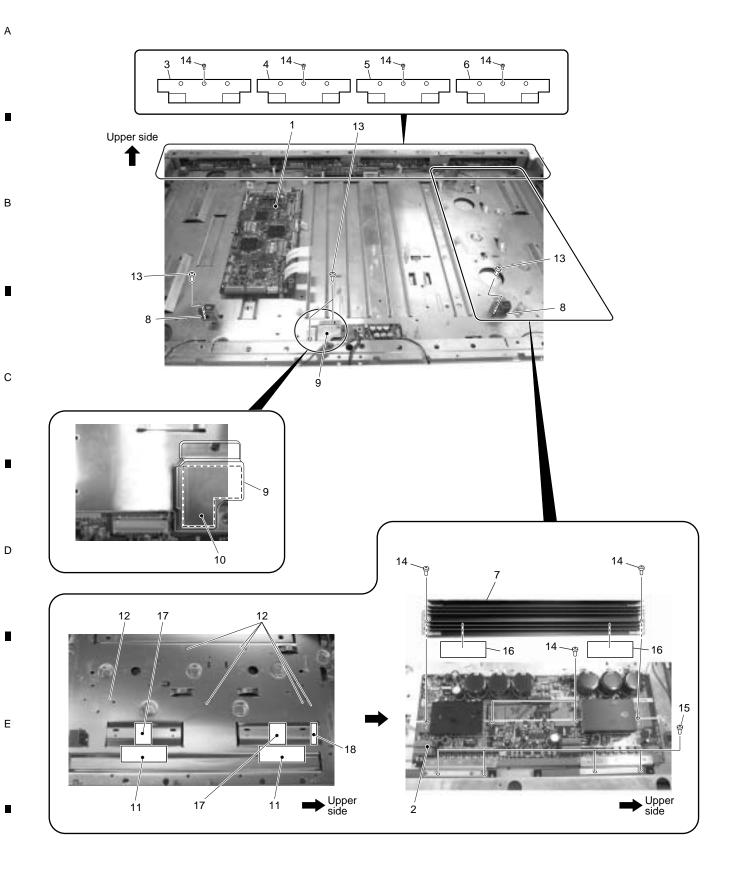
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2.3 UNDER LAYER SECTION (2)



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PDP-433PU

UNDER LAYER SECTION(2) parts List

Mark No.	<u>Description</u>	Part No.
1	DIGITAL VIDEO Assy	AWV1971
2	X DRIVE Assy	AWV1985
NSP 3	ADR CONNECT A Assy	AWZ6678
NSP 4	ADR CONNECT B Assy	AWZ6679
NSP 5	ADR CONNECT C Assy	AWZ6680
NSP 6	ADR CONNECT D ASSY	AWZ6681
NSP 7	Drive Heatsink Assy	ANH1598
NSP 8	Metal Fitting	ANG2464
NSP 9	Heat Sink	ANH1594
10	Silicone Sheet	AEH1039
11	Coil Silicon Sheet	AEH1048
12	Circuit Board Spacer	AEC1872
13	Screw	ABZ30P060FMC
14	Screw	VBB30P100FNI
15	Screw	PMB30P060FNI
16	Drive Silicon Sheet	AEH1041
17	Insulation Sheet A	AEC1923
18	Insulation Sheet B	AEC1924

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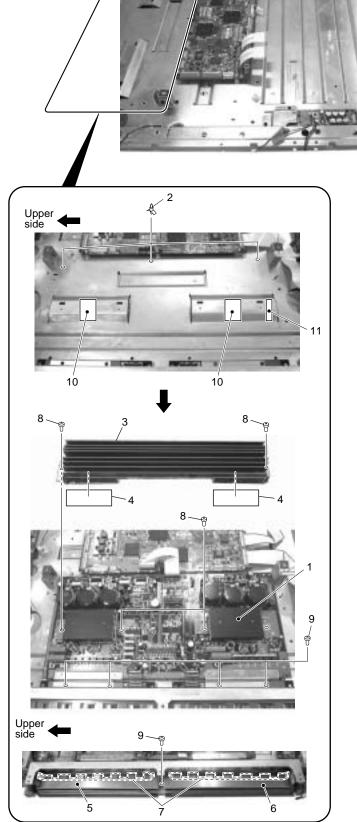
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UNDER LAYER SECTION(3) parts List

Mark No	<u>Description</u>	Part No.
1	Y DRIVE Assy	AWZ6749
2	Circuit Board Spacer	AEC1872
NSP 3	Drive Heatsink Assy	ANH1598
4	Drive Silicon Sheet	AEH1041
5	Scan IC Spring (43L)	ABK1029
6	Scan IC Spring (43R)	ABK1030
7	Scan Insulation Sheet (43)	AMR3287
8	Screw	VBB30P100FNI
9	Screw	PMB30P060FNI
10	Insulation Sheet A	AEC1923
11	Insulation Sheet B	AEC1924

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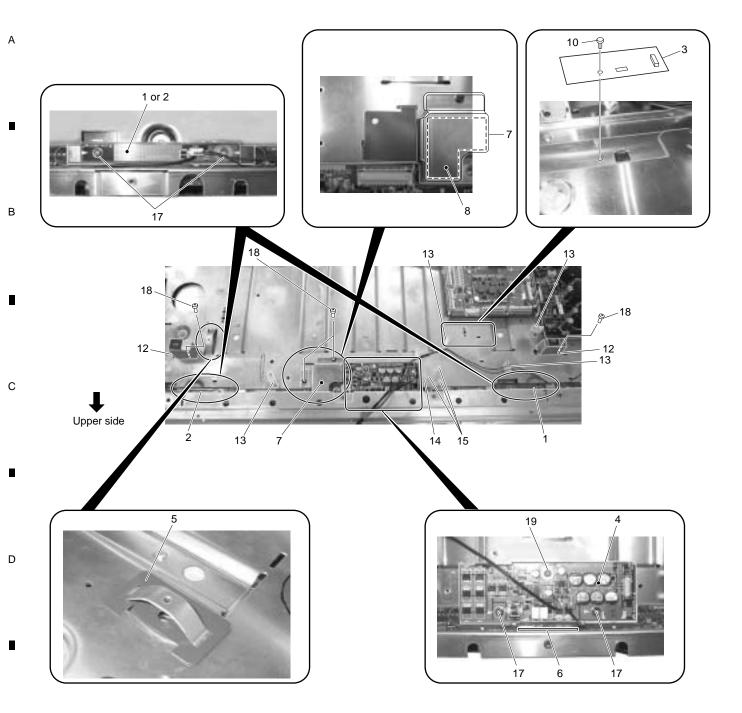
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UNDER LAYER SECTION(4) parts List

Mark No.	<u>Description</u>	Part No.
1	BRIDGE A Assy	AWZ6728
2	BRIDGE B Assy	AWZ6729
3	SENSOR ASSY	AWZ6696
4	ADR RESONANCE Assy	AWZ6751
5	Brind Plate	AMR3313
6	Insulation Sheet	AMR3343
NSP 7	Heat Sink	ANH1594
8	Silicone Sheet	AEH1039
9	••••	
10	Rivet	BEC1066
11	••••	
12	Metal Fitting	ANG2464
13	Wire Saddle	AEC1904
NSP 14	PCB Spacer	AEC1121
15	Circuit Board Spacer	AEC1873
16	••••	
17	Screw	ABA1301
18	Screw	ABZ30P060FMC
19	Screw	VBB30P100FNI

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2.6 UNDER LAYER SECTION (5)

Upper side 12 – 35-33 37 -34 20 D18 \ D6 41 X2 X1 0 38 Y2 13 – 15 -14 -27 White Tape 22 2 39 9 21

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UNDER LAYER SECTION(5) parts List

UNDER	LAYER SECTION(5) part	ts List
Mark No.	<u>Description</u>	Part No.
NSP 1	ADR CONNECT A Assy	AWZ6678
NSP 2	ADR CONNECT B Assy	AWZ6679
NSP 3	ADR CONNECT C Assy	AWZ6680
NSP 4	ADR CONNECT D Assy	AWZ6681
5	ADR RESONANCE Assy	AWZ6751
6	BRIDGE A Assy	AWZ6728
7	BRIDGE B Assy	AWZ6729
8	BRIDGE C Assy	AWZ6730
9	BRIDGE D Assy	AWZ6731
10	SUB ADDRESS A Assy	AWZ6692
11	SUB ADDRESS B Assy	AWZ6693
12	SCAN (A) Assy	AWZ6724
13	SCAN (B) Assy	AWZ6725
14	Y DRIVE Assy	AWZ6749
15	DIGITAL VIDEO Assy	AWV1971
16	SENSOR Assy	AWZ6696
17	X CONNECTOR (A) Assy	
18	X CONNECTOR (B) Assy	AWZ6727
19	X DRIVE Assy	AWV1985
20	J204 Flexible Flat Cable	ADD1207
21	J209 Flexible Flat Cable	ADD1206
22	J210 Flexible Flat Cable	ADD1204
23		ADD1199
24	J212 Flexible Flat Cable	ADD1201
25	J201 Flexible Flat Cable	ADD1194
26	J202 Flexible Flat Cable	ADD1194
27	'	AEC1879
28	J203 Flexible Flat Cable	ADD1198
29	J205 Flexible Flat Cable	ADD1202
30	J206 Flexible Flat Cable	ADD1200
31	J207 Flexible Flat Cable	ADD1208
32	J208 Flexible Flat Cable	ADD1205
33	Power Sheet (43)	AMR3284
34	Rivet	BEC1066
35	J110 3P Housing Wire	ADX2741
36	J108 8P Housing Wire	ADX2740
37	J102 Wire E	ADX2738
38	J103 13P Housing Wire	ADX2766
39	J116,J117 4P Housing Wire	ADX2783
40	J120 Wire L	ADX2763
41	J101 13P Housing Wire	ADX2768
42	J109 8P Housing Wire	ADX2743
43	Nylon Binder	AEC-093

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2.7 MIDDLE LAYER SECTION (1)

Upper side Upper side Upper side Upper side

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MIDDLE LAYER SECTION(1) parts List

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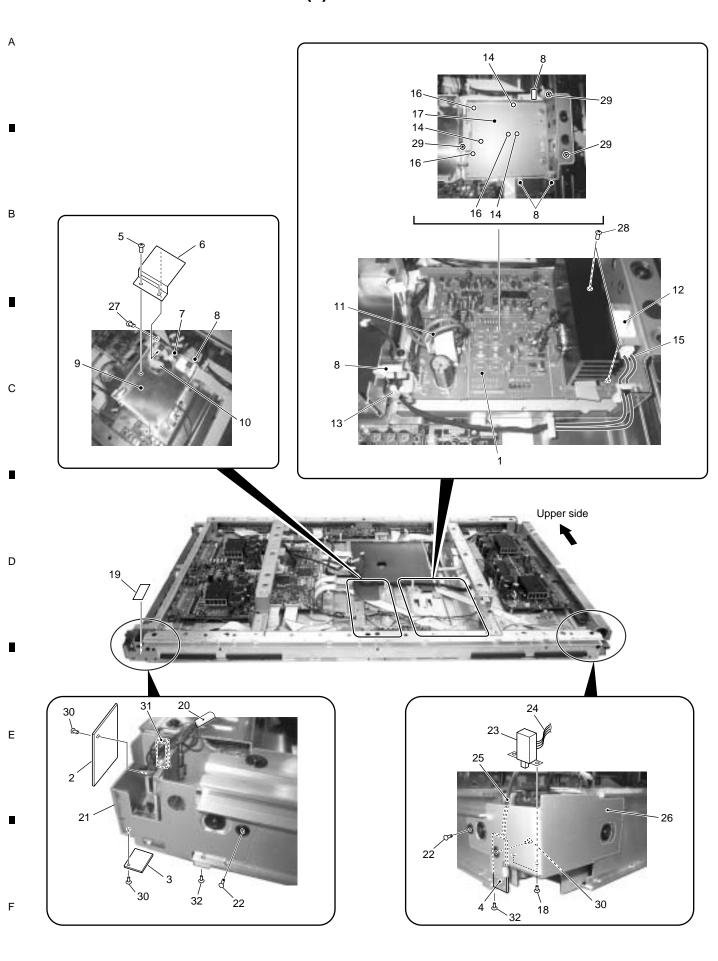
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2.8 MIDDLE LAYER SECTION (2)



PDP-433PU

MIDDLE LAYER SECTION(2) parts List

Mark No.	Description Description	Part No.
1	AUDIO AMP Assy	AWZ6687
2	FRONT KEY CONN Assy	AWZ6657
3	IR (P) Assy	AWZ6658
4	LED Assy	AWZ6655
5	Nylon Rivet	AEP-211
3	Nyion Rivet	ALI ZII
6	IF Sheet	AMR3298
7	Edge Saddle	AEC1571
8	Wire Saddle	AEC1745
9	IF Shield	ANA1675
10	L2 Toroidal Core	ATX1042
11	J214 3P Housing Wire	ADX2735
12	=	ASG1089
13	Niplocker	BEC1136
14	PCB Spacer	AEC1570
15	J215 3P Housing Wire	ADX2757
16	Spacer	AEC1360
17	Audio Base	ANA1687
18	Screw	BMZ30P060FZK
19	V Cushion	AED1205
20	J113 Wire PJ	ADX2742
NSP 21	IR Holder	ANG2494
22	Nylon Rivet	AEC1671
<u> </u>	S1 Power Switch	ASG1082
24	J106 Wire PC	ADX2827
25	J104 3P Housing Wire	ADX2748
NSP 26	Switch Holder	ANG2493
27	Screw	ABA1294
28	Screw	PMB30P060FNI
29	Screw	AMZ30P060FZK
30	Screw	BMZ30P040FMC
31	Gasket R	ANK1695
32	Screw	ABZ30P050FZK

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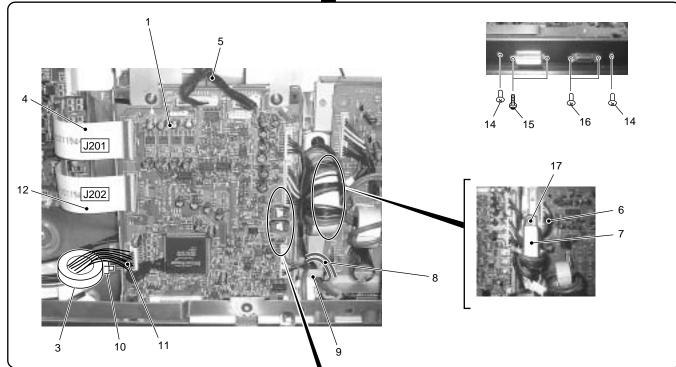
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2.9 UPPER LAYER SECTION (1)



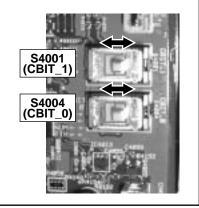
■ Caution in the MR INTERFACE Assy Replacement

Set the slide switches in accordance with applicable model when replacing the MR INTERFACE Assy.

	S4001 CBIT_1	S4004 CBIT_0
PDP-433P	\rightarrow	\rightarrow
PDP-433PU	\rightarrow	\rightarrow
PDP-433PE	←	\rightarrow
PDP-433PG	←	\rightarrow

Note 1: When there is not S4004, set only S4001.

Note 2: When there are not S4001 and S4004, setting is unnecessary.



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UPPER LAYER SECTION(1) parts List

Mark No.	<u>Description</u>	Part No.
1	MR INTERFACE Assy	AWZ6699
2	Terminal Panel	ANG2534
3	L6 Ferrite Core	ATX1037
4	J201 Flexible Flat Cable	ADD1194
5	J118 Wire P	ADX2765
6	J111 14P Housing Wire	ADX2730
7	L3 Toroidal Core	ATX1042
8	J214 3P Housing Wire	ADX2735
9	J104 3P Housing Wire	ADX2748
10	Ferrite Core Holder	AEC1818
11	J113 Wire PJ	ADX2742
12	J202 Flexible Flat Cable	ADD1194
13	Screw	TBZ40P080FZK
14	Screw	AMZ30P060FZK
15	Screw	BBA1051
16	Screw	PMZ26P080FZK
17	Screw	ABA1294

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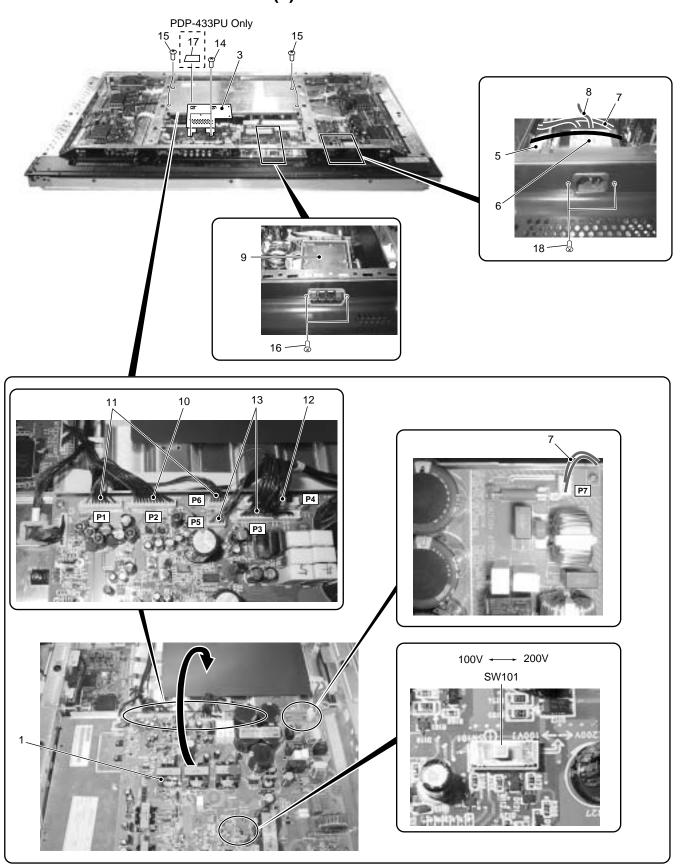
2.10 UPPER LAYER SECTION (2)

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UPPER LAYER SECTION(2) parts List

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<u>Mark</u>	<u>No.</u>	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
<u> </u>	1	SW Power Supply Module	AXY1059			
	2	••••		11	J118 Wire P	ADX2765
	3	IF Earth Metal	ANA1690	12	J103 13P Housing Wire	ADX2766
	4	••••		13	J102 Wire PE	ADX2738
<u> </u>	5	L1 Ferrite Core	ATX1032	14	Screw	PMB30P060FNI
				15	Screw	AMZ30P060FZK
<u> </u>	6	CN1 AC Inlet with Filter	AKP1223			
	7	J105 Wire PB	ADX2826	16	Screw	BPZ30P080FZK
	8	J114 Earth Wire	ADX2709	17	Solder Warning Label	See Contrast table (2)
	9	SP TERMINAL Assy	AWZ6688	18	Screw	BMZ30P060FZK
	10	J101 13P Housing Wire	ADX2768			

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(2) CONTRAST TABLE

PDP-433PU/KUC, PDP-433PE/WYVI6, PDP-433PE/WYVI6XK and PDP-433PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-433PU/KUC	PDP-433PE/ WYVI6	PDP-433PE/ WYVI6XK	PDP-433PG/ TLDPKBR
	17	Solder Warning Label	AAX2644	Not used	Not used	Not used

PDP-433PU

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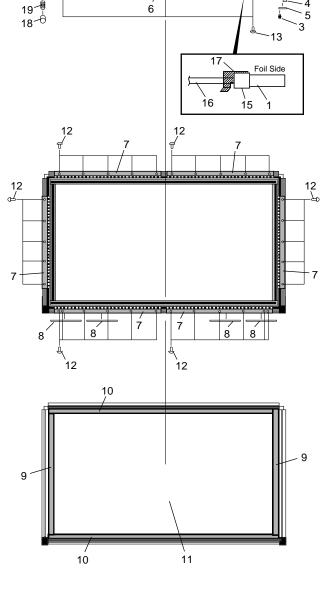
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FRONT CASE SECTION parts List

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Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	FRONT KEY Assy	AWZ6656	12	Screw	ABZ30P050FZK
2	Front Case 43 (P)	AMB2725	13	Screw	VMZ30P060FZK
3	Rivet	AEC1877	14	••••	
<u> </u>	L5 Ferrite Core	ATX1043	15	Serial Seal	AAX2609
5	Lead Cover (P)	AMR3341			
			16	J213 Flexible Flat Cable	ADD1193
6	Pioneer Badge	AAM1091	NSP 17	Flexible Seal (P)	AEH1052
NSP 7	Panel Holder (43)	ANG2519	18	Power Button	AAD4113
8	Spacer	AEC1896	19	Coil Spring	ABH1108
9	Panel Cushion V (43)	AED1201	20	Energy Star Label	See Contrast table (2)
10	Panel Cushion H (43)	AED1200			
			21	HDTV Label	See Contrast table (2)
11	Protect Panel Assy (43)	AMR3303			

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(2) CONTRAST TABLE

PDP-433PU/KUC, PDP-433PE/WYVI6, PDP-433PE/WYVI6XK and PDP-433PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-433PU/KUC	PDP-433PE/ WYVI6	PDP-433PE/ WYVI6XK	PDP-433PG/ TLDPKBR
	20	Energy Star Label	AAX2865	Not used	Not used	Not used
	21	HDTV Label	AAX2891	Not used	Not used	Not used

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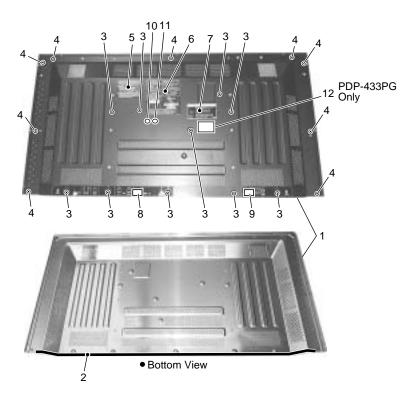
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REAR SECTION parts List

Mark No.	<u>Description</u>	Part No.	Mark No.	<u>Description</u>	Part No.
1	Rear Case 43P	ANE1607	8	Terminal Display Label P Gray	See Contrast table (2)
2	Gasket L43	ANK1698	9	Terminal Display Label L Gray	See Contrast table (2)
3	Screw	AMZ30P060FZK	10	Label (Blue 8)	AAX2786
4	Screw	TBZ40P080FZK			
5	Cleaning Label Gray	AAX2926	11	Label (Green 8)	AAX2955
			12	MIC Label	See Contrast table (2)
NSP 6	Name Label (HD) Gray	See Contrast table (2)			
7	Bolt Caution Label Gray	AAX2928			

(2) CONTRAST TABLE

PDP-433PU/KUC, PDP-433PE/WYVI6, PDP-433PE/WYVI6XK and PDP-433PG/TLDPKBR are constructed the same except for the following:

Mark	No.	Symbol and Description	PDP-433PU/KUC	PDP-433PE/ WYVI6	PDP-433PE/ WYVI6XK	PDP-433PG/ TLDPKBR
NSP	6	Name Label (HD) Gray	AAL2426	AAL2425	AAL2429	AAL2427
	8	Terminal Display Label P Gray	AAX2929	AAX2929	AAX2939	AAX2929
	9	Terminal Display Label L Gray	AAX2930	AAX2935	AAX2940	AAX2930
	12	MIC Label	Not used	Not used	Not used	AAX2949

PDP SERVICE ASSY 433 parts List

Mark No.	<u>Description</u>	Part No.
	Panel Chassis (43) Assy	AWU1067
NSP	Front Chassis V (43)	ANA1702
NSP	Front CHassis HU (43)	ANA1698
NSP	Front Chassis HL	ANA1700
	Sub Frame L	ANG2517
	Sub Frame R	ANG2518
	Scan IC Spring (43L)	ABK1029
	Scan IC Spring (43R)	ABK1030
NSP	Metal Fitting	ANG2464
	FPC Cushion 50	AEB1371
NSP	PCB Spacer	AEC1121
	Locking Card Spacer	AEC1736
	Circuit Board Spacer	AEC1872
	Circuit Board Spacer	AEC1873
	Spacer	AEC1896
NSP	Card Spacer	AEC1902
	Wire Saddle	AEC1904
	Panel Cushion H (43)	AED1200
	Panel Cushion V (43)	AED1201
	V Cushion	AED1205
	Insullation Sheet	AMR3263
	Scan Sheet (43)	AMR3287
	Card Corner Holder	BEC1144
	Insulation Sheet C	AEC1927
	Panel Caution Sheet	ARM1217
	D	
	Brind Plate	AMR3313
	Insulation Sheet	AMR3343
	Screw	ABA1283
	Screw	ABA1294
	Screw	ABZ30P060FMC
	Screw	BMZ30P060FMC
	Screw	PMB30P060FNI
	Screw	VBB30P100FNI
	Bolt	ABA1259
	Corner Pad	AHA2293
	Upper Carton	AHD3139
	Under Carton	AHD3140
	Packing Sheet	AHG1291
	Washer	WB80FZB
	VR Cushion	AEB1374
	Nintagran	AFC4902
	Niplocker Static Plate	AEC1803
	Static Plate	AHK1013
	Plate	AHK1014
	Screw Washer	BYC40P220FMC WC60FZK
	vvdolici	WV-VUUI-ZIX

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2.14 PANEL CHASSIS (43) ASSY (AWU1067)

PANEL CHASSIS(43) ASSY parts List

Α	Mark No.	<u>Description</u>	Part No.	
	NSP	SCAN FUKUGO ASSY	AWV1969 *	•
	NSP	ADDRESS FUKUGO ASSY	AWV1928 *	•
	NSP	Address Module (IC1 - IC32)	AXF1114	
	NSP	FPC (J1,J2)	ADY1079	
_	NSP	FPC (J3,J4)	ADY1080	
-				
	NSP	1Chassis Assy (43)	ANA1712	
	NSP	2Chassis (43)	ANA1668	
	NSP	2Base Chassis (43)	ANA1669	
	NSP	2Scan Heatsink (43)	ANH1610	
В	NSP	2Corner Angle A	ANG2457	
	NSP	2Corner Angle B	ANG2458	
		2Insulation Seet A	AEC1923	
		2Insulation Seet B	AEC1924	
	NSP	2Tube Cover	AMR3262	
_		2Rear Coner Label	AAX2862	
		2Silicone Sheet 43	AEH1043	
		2Adhesive Tape 43	AEH1044	
		2Adhesive Tape B 43	AEH1054	
С		2Panel Silicone Sheet	AEH1055	
		2Silicone Sheet B43	AEH1056	
		Pin Grommet	AEC1015	
		Scan Silicone Sheet	AEH1058	
	NSP	Plasma Panel Assy (43)	AAV1239	
		Screw	VBB30P100F	NI
		Protection Tape	AEH1059	
	Mark No.	<u>Description</u>	Part No.	
D	NSP	1SCAN FUKUGO ASSY	AWV1969	
		2SCAN (A) ASSY	AWZ6724	
		2SCAN (B) ASSY	AWZ6725	
		2X CONNECTOR (A) ASS		
		2X CONNECTOR (B) ASSY	YAWZ6727	
		2BRIDGE A ASSY	AWZ6728	
		2BRIDGE B ASSY	AWZ6729	
		2BRIDGE C ASSY	AWZ6730	
		2BRIDGE D ASSY	AWZ6731	
	NSP	1ADDRESS FUKUGO ASSY	AWV1928	
E	NSP	2ADR CONNECT A ASSY	AWZ6678	
	NSP	2ADR CONNECT B ASSY	AWZ6679	
	NSP	2ADR CONNECT C ASSY	AWZ6680	
	NSP	2ADR CONNECT D ASSY	AWZ6681	
		2ADR RESONANCE ASSY	'AWZ6751	

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Please order the PDP Service Assy 433 (AWU1069) when replacing the Chassis block. PDP Service Assy 433 is all common use parts for business, consumer models and module. It is supplied by installing the Circuit Board Spacer (AEC1872) and the Wire Saddle (AEC1904) as follows. Therefore it is necessary to remove them in accordance with the models.

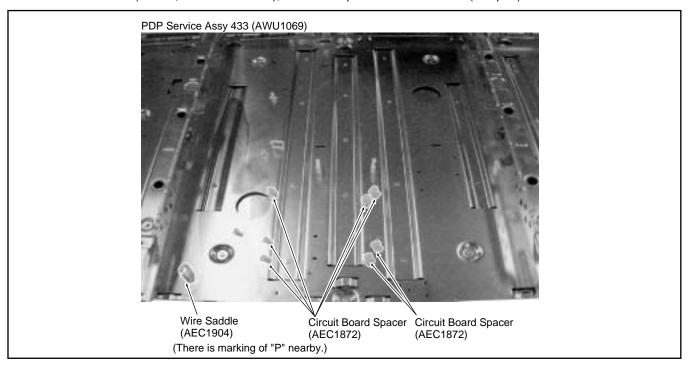
Confirm the character of the seal carved near the parts, and then remove them.

P : for Consumer models only

W: for Module only

PW: Common use for Consumer models and Module

* In case of this unit(433PU, 433PE or 433PG), remove the part that "W" is marked(one part).



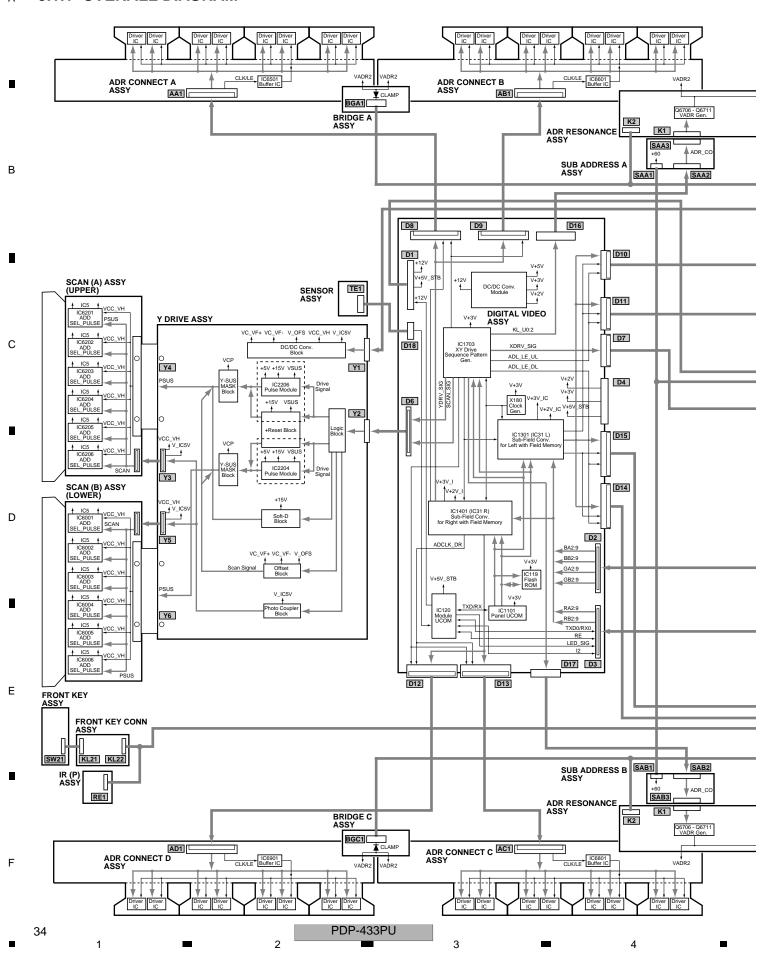
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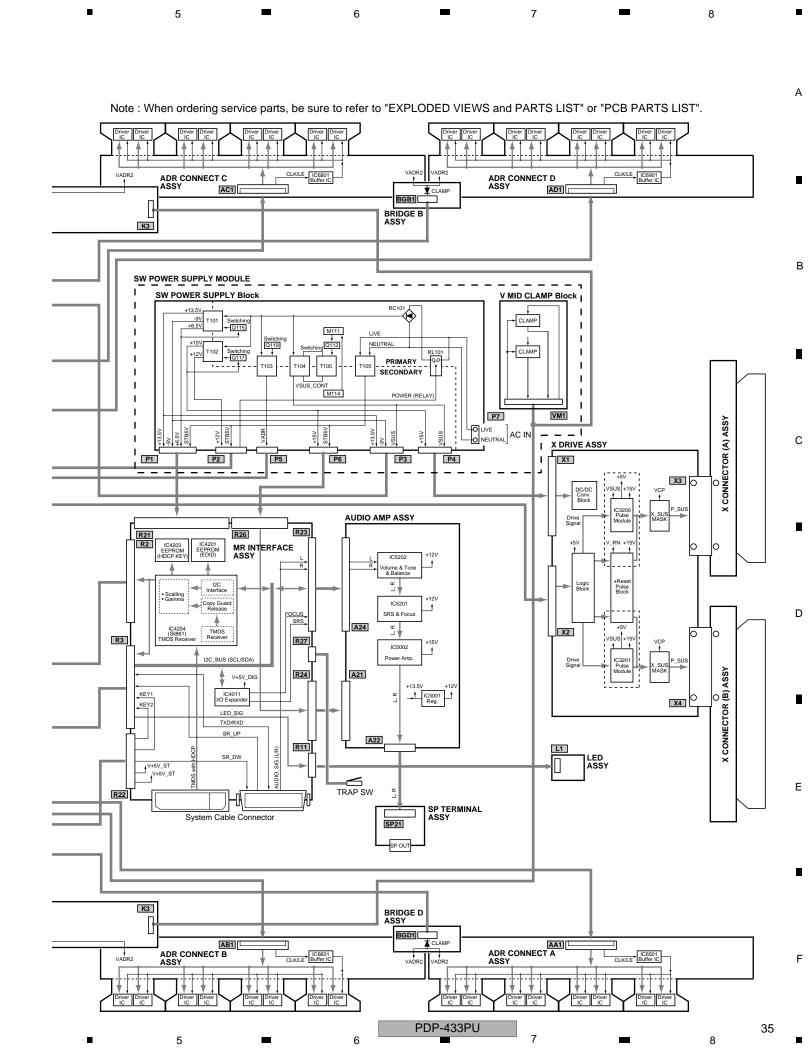
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3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

3.1.1 OVERALL DIAGRAM





Α CN4003 (DVI) IC4204 TMDS_RXCORE CONTENT_PROTECTION SCALING 8bit DIGITAL TMDS IC4203 (CONF_ROM) Q4201, Q4202 (5V ↔ 3.3V I2C_LEVEL_SHIFT) Q4005, Q4006 (5V ↔ 3.3V IC4201 (DDC_ROM) I2C_LEVEL_SHIFT) В 6 DDC_SCL 7 DDC_SDA DDC_SCL DDC_SDA 14 DDC5V IC4013 (STB_DET) Q4014 (REM_CUT) → PMST IC4010 (NON_SYSTEM_DET) Q4018 (INV) Q4001, Q4002 (I2C SW) IC4011 (I/O_EXPANDER) CN4002 (MDR) CN4004, CN4005 IC4006 (REM_SLICER) 15 SR_UP V+5V_DIG С IC4005 (I/O_EXPANDER) Q4008 (2.5V_REG) A_SDA S4001, S4004, etc (MODEL_INFO) IC4006 (TTL → CMOS CONVERT) ⇒ RXD0 11 M_TXD IC4006 (BUFF) $\textcircled{1}\,\texttt{M_RXD}$ Q4012 (INV) 14) SR_DOW IC4008, IC4009 (REM_SW) Q4007 (BUFF) D SM_POW 5 SM_POW IC4010 (BUFF) R4098 (BIAS) 7 сскм IC4007 (COMPR) 8 CSEN2 SW_TRG F_KEY1 F_KEY2 Q4011 (DRIVER) LED_G Е Q4401 (BUFF) (10)(20) SPL Q4402 (BUFF) 4)(13) SPR CN4401 LED_G LED_R CN4007 CN4009

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■ Voltages

CN4	002 (MDF	R Connector) (↔ Media R	eceiver)
No.	Name	Description	Voltage at INPUT4 NTSC Input
1	M_RXD	232C bus (PDP → MR)	0-5V swing square wave
2	GND		
3	SENCE	Connecting detection for MR	0.0V DC
4	SPR	Audio signal R ch	Analog audio signal wave
5	SMPOW	MR relay control	3.5V DC
6	GND		
7	CCKM	System activation detection	1.9V DC
8	CSEN2	System activation signal	5.0V DC
9	CSEN1	Not used	
10	SPL	Audio signal L ch	Analog audio signal wave
11	M_TXD	232C bus (MR → PDP)	0-3.3V swing square wave
12	GND		
13	SPR	Audio signal R ch	Analog audio signal wave
14	SR_DW	Remote control signal	5.0V DC
15	SR_UP	MDR connecting detection signal	3.75V DC
l		multiplex remote control signal	
16	GND		
17	FRASH_W	Not used	
18	SRST	Not used	
19	GND	l	
20	SPL	Audio signal L ch	Analog audio signal wave
l			
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No.	Name	Description	Voltage at INPUT4 NTSC Input
1	RX2-	DVI signal	DVI signal
2	RX2+	DVI signal	DVI signal
3	GND		
4	NC		
5	NC		
6	DDC_SCL	I2C for DDC	0-5V swing square wave
7	DDC_SDA	I2C for DDC	0-5V swing square wave
8	NC		
9	RX1-	DVI signal	DVI signal
10	RX1+	DVI signal	DVI signal
11	GND		
	NC		
	NC		
14	DDC_+5V	I2C power supply for DDC	5.0V DC
15	GND	LIGT BLUG L	5 0 / 50
16	HPD	HOT_PLUG detection	5.0V DC
17	RX0-	DVI signal	DVI signal
18	RX0+	DVI signal	DVI signal
19	GND		
20 21	NC NC		
22	GND		
22	RXC+	DV/I signal	DVI signal
23	RXC+	DVI signal DVI signal	DVI signal
24	IKAC-	DVI Signal	DVI signal

No.	Name	Description	Voltage at INPUT4 NTSC Input
1	GND		
2	GND		
3	NC		
4	NC		
5	NC		
6	NC		
7	BB0	8 bit video signal	0-3.3V swing square wave
8	BA0	8 bit video signal	0-3.3V swing square wave
9	BB1	8 bit video signal	0-3.3V swing square wave
10	BA1	8 bit video signal	0-3.3V swing square wave
11	BB2	8 bit video signal	0-3.3V swing square wave
12	BA2	8 bit video signal	0-3.3V swing square wave
13	BB3	8 bit video signal	0-3.3V swing square wave
14	BA3	8 bit video signal	0-3.3V swing square wave
15	BB4	8 bit video signal	0-3.3V swing square wave
16 17	BA4	8 bit video signal	0-3.3V swing square wave
18	BB5 BA5	8 bit video signal	0-3.3V swing square wave
19	BB6	8 bit video signal 8 bit video signal	0-3.3V swing square wave
20	BA6	8 bit video signal	0-3.3V swing square wave
21	BB7	8 bit video signal	0-3.3V swing square wave 0-3.3V swing square wave
22	BA7	8 bit video signal	0-3.3V swing square wave
23	GND	8 bit video signal	0-3.3V Swing Square wave
24	GND		
25	NC		
26	NC		
27	NC		
28	NC		
29	GB0	8 bit video signal	0-3.3V swing square wave
30	GA0	8 bit video signal	0-3.3V swing square wave
31	GB1	8 bit video signal	0-3.3V swing square wave
32	GA1	8 bit video signal	0-3.3V swing square wave
33	GB2	8 bit video signal	0-3.3V swing square wave
34	GA2	8 bit video signal	0-3.3V swing square wave
35	GB3	8 bit video signal	0-3.3V swing square wave
36	GA3	8 bit video signal	0-3.3V swing square wave
37	GB4	8 bit video signal	0-3.3V swing square wave
38	GA4	8 bit video signal	0-3.3V swing square wave
39	GB5	8 bit video signal	0-3.3V swing square wave
40	GA5	8 bit video signal	0-3.3V swing square wave
41	GB6	8 bit video signal	0-3.3V swing square wave
42	GA6	8 bit video signal	0-3.3V swing square wave
43	GB7	8 bit video signal	0-3.3V swing square wave
44	GA7	8 bit video signal	0-3.3V swing square wave
45	GND		
46	GND		
47	NC		
48	NC		
49	GND		
50	GND		
	1		

CN4005 (50P_FFC Connector) (↔ DIGITAL VIDEO Assy)

No.	Name	Description	Voltage at INPUT4 NTSC Input
	NC		-
'2	NC		
3	NC		
1 4	NC		
5	RB0	8 bit video signal	0-3.3V swing square wave
ŏ	RA0	8 bit video signal	0-3.3V swing square wave
ŏ	RB1	8 bit video signal	0-3.3V swing square wave
·	RA1	8 bit video signal	0-3.3V swing square wave
ŏ	RB2	8 bit video signal	0-3.3V swing square wave
10	RA2	8 bit video signal	0-3.3V swing square wave
1 11	RB3	8 bit video signal	0-3.3V swing square wave
12	RA3	8 bit video signal	0-3.3V swing square wave
13	RB4	8 bit video signal	0-3.3V swing square wave
14	RA4	8 bit video signal	0-3.3V swing square wave
15	RB5	8 bit video signal	0-3.3V swing square wave
16	RA5	8 bit video signal	0-3.3V swing square wave
17	RB6	8 bit video signal	0-3.3V swing square wave
18	RA6	8 bit video signal	0-3.3V swing square wave
19	RB7	8 bit video signal	0-3.3V swing square wave
20	RA7	8 bit video signal	0-3.3V swing square wave
21	GND		3.1
22	CLK	Clock	0-3.3V swing square wave (40MHz)
23	GND		3.1,
24	DE	Data enable	0-3.3V swing square wave (+ polarity)
25	GND		3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
26	HD	Horizontal sync. signal	0-3.3V swing square wave
27	GND		(- polarity 48.4kHz)
28	VD	Vertical sync. signal	0-3.3V swing square wave
29	GND	, ,	(- polarity 60.0Hz)
30	A SCL	I2C bus	0-5V swing square wave
31	F KEY1	Front key signal 1	5.0V DC
32	PMST	MDR connecttion Detect signal	3.75V DC
33	SMPOW	MR relay control	5.0V DC
34	A MUTE	Audio mute	0.0V DC
35	ССКМ	System activation detect	1.9V DC
36	M STATE	Sil861 I2C bus master infomation	0.0V DC
37	SW_STC	Not used	
38	A NG	Not used	
39	SW_TRG	System activation signal	5.0V DC
40	F_KEY2	Front key signal 2	5.0V DC
41	A_SDA	I2C bus	0-5V swing square wave
42	*LED_G	Green LED control signal	0.0V DC
43	TXD0	232C bus	0-5V swing square wave
44	*LED_R	Red LED control signal	5.0V DC
45	RXD0	232C bus	0-5V swing square wave
46	DDC_SCL	I2C for DDC	0-5V swing square wave
47	REM	Remote control signal	5.0V DC
48	DDC_SDA	I2C for DDC	0-5V swing square wave
49	GND		
50	GND		
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3.1.3 DIGITAL VIDEO ASSY

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MR INTERFACE **DIGITAL VIDEO ASSY** 3.3V 2.5V **ASSY** 3.3V ∳ IC1301 (IC31 L) (PD6358) DRAM Address Data RGB 2 phase 8 bit ADR CONNECT A - D Assy (Left section) Line Buffer IC4204 Sil861 IC1401 (IC31 R) (PD6358) DRAM Address BUS Data BUS Control Signal ADR CONNECT A - D Assy (Right section) VD HD DE CLK 3.3V Reflesh-rate Det. IC1191 Flash ROM IC1703 (IC23) (PE5064) Y DRIVE Assy Sustain Control VD 31 APLR 3.3V Address Resonance Control IC1101 (HD64F2328VF) Panel Microcomputer X DRIVE Assy AND PC_VIDEO ADR RESONANCE Assy ADR_K_EMG RXD BUSY REQ_PU ADR KPD U OR Reset IC $\boxed{\textbf{5.0V} \rightarrow \textbf{3.3V}} \boxed{\textbf{3.3V} \rightarrow \textbf{5.0V}}$ AND CN1201 RST PU DEW DET Panel W/B ADJ. Hour/Pulse meter pn EXT_RXD EXD RXD APD EXT_TXD EXD TXD STB5V STB5V RXDO EEP ROM 3.3V 2.5V STB5V To MR TXDO IC1207 (M30624FGAFP) Module Microcomputer DC/DC IC4005 Expander A_SCL, A_SDA PXDO P DCC_PD Converter Block OR -IC4011 Expander WE_PN AUDIO Assy AC_OFF PD_TRIGGER RELAY RESET Reset IC В STB5V 12V DIG. THERMAL SENSOR Assy SW POWER SUPPLY Module

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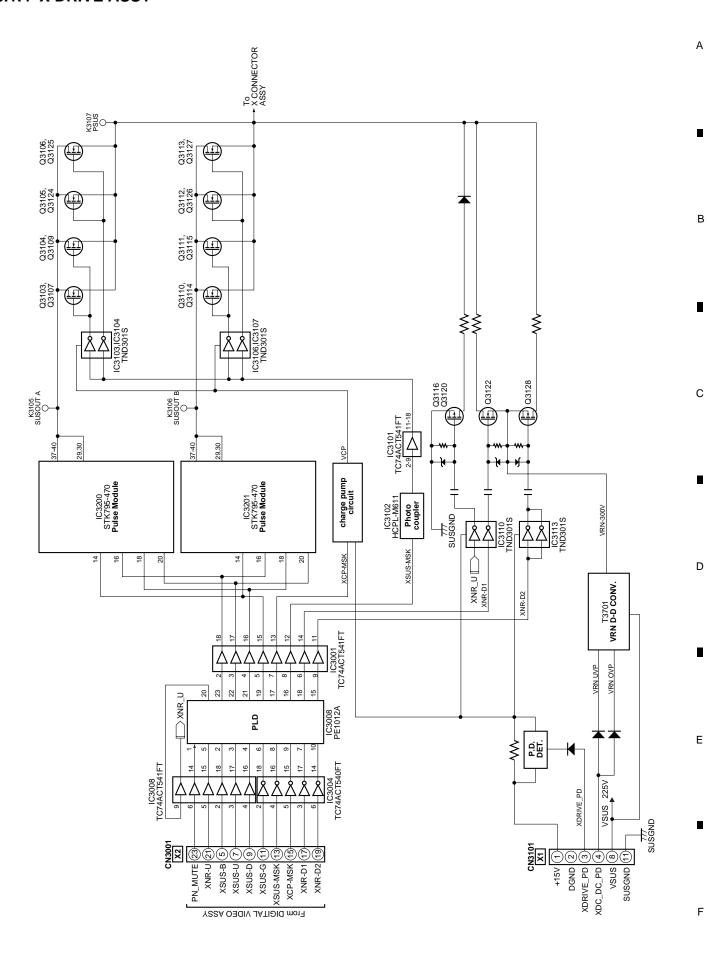
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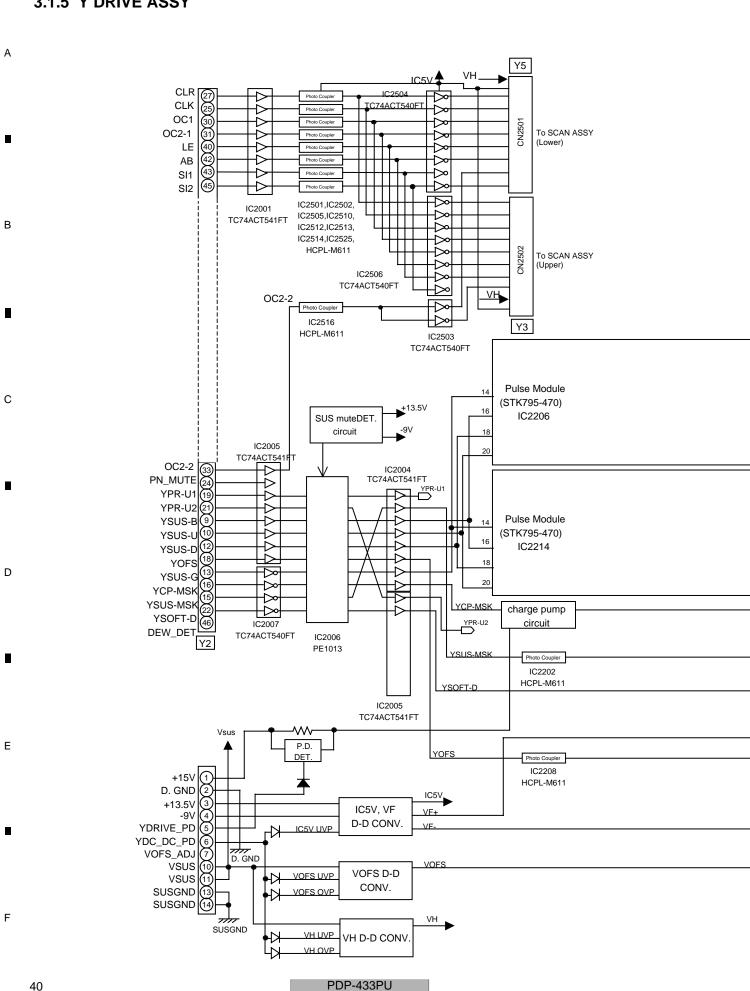
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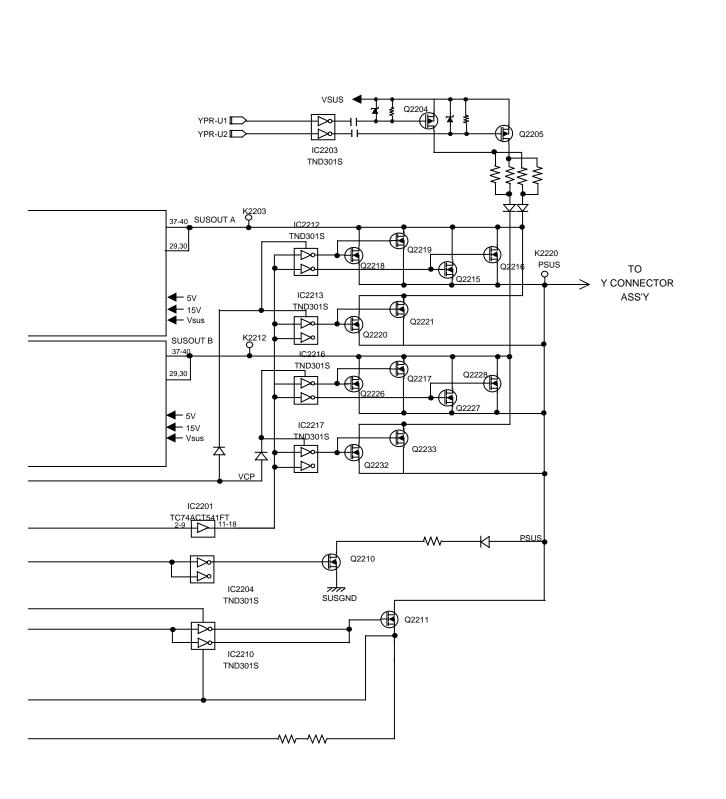
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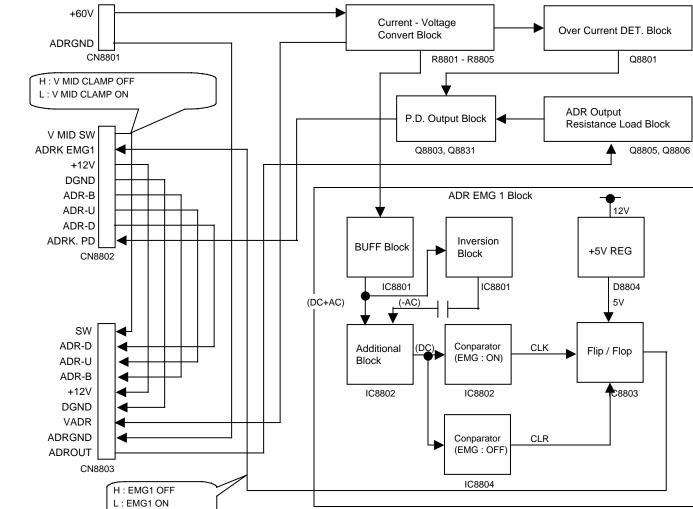
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5

Address Module

(TCP)

DATA_R DATA_G DATA_B

DATA_R DATA_G DATA_B

Address Module

(TCP)

DATA_R DATA_G DATA_B

DATA_R DATA_G DATA_B

ADR OUT

BRIDGE ASSY

OPEN PD

Q6502, Q6503

Buffer

IC6501

3

Address Module (TCP)

DATA_R DATA_G DATA_B

CN6501

DATA_R DATA_G DATA_B

ADR PD

HZ LBLK HBLK LE CLK

Address Module (TCP)

DATA_R DATA_G DATA_B

DATA_R DATA_G DATA_B

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PDP-433PU

AUDIO AMP ASSY

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IC5202 (CXA2021S)

No.	Voltage (V)	No.	Voltage (V)
1	5.9	12	5.25
2	0	13	1.73
3	5.95	14	5.95
4	5.94	15	5.92
5	5.98	16	5.91
6	6.02	17	5.93
7	6.02	18	5.92
8	7.38	19	5.94
9	5.95	20	5.95
10	1.55	21	11.91
11	5.24	22	5.9

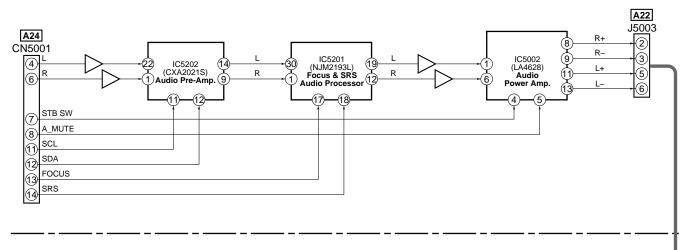
IC5201 (NJM2193L)

No.	Voltage (V)	No.	Voltage (V)
1	5.95	16	11.91
2	5.94	17	0
3	5.84	18	0
4	5.98	19	5.98
5	5.98	20	5.91
6	5.97	21	5.97
7	5.98	22	5.98
8	5.98	23	5.98
9	5.98	24	5.98
10	5.97	25	5.97
11	5.97	26	5.98
12	5.98	27	5.98
13	5.96	28	5.84
14	5.98	29	5.94
15	0	30	5.95

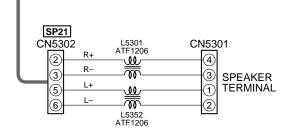
IC5002 (LA4628)

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No.	Voltage (V)
1	1.6
2	7.5
3	0
4	3.37
5	2.29
6	1.6
7	1.97
8	7.3
9	7.3
10	0
11	7.3
12	0
13	7.3
14	15



SP TERMINAL ASSY



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DIGITAL VIDEO ASSY

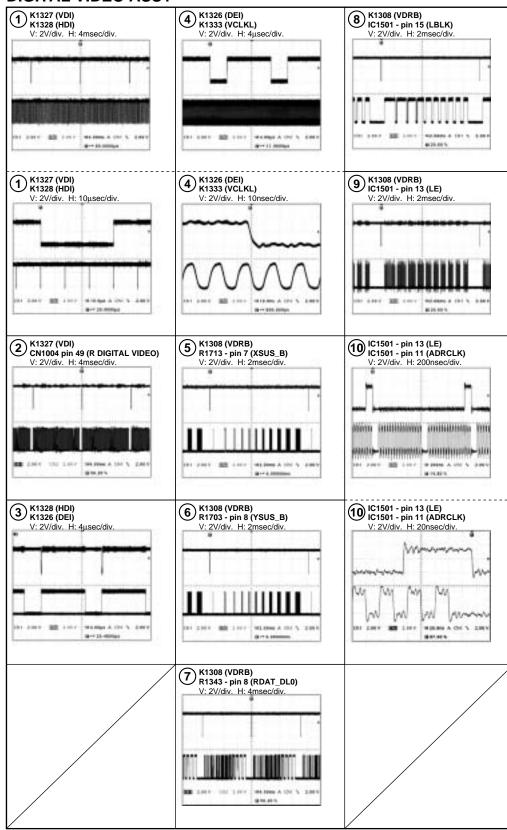
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ADR CONNECT A - D SUB ADDRESS A, B ADR RESONANCE ASSY ASSY ASSY CH1 : IC8801 - pin 3 CH2 : IC8801 - pin 7 CH1: IC6702 - pin 2 CH2: IC6701 - pin 2 CH3: IC6703 - pin 2 CH1 : IC6501 - pin 8 (CLK) CH2 : IC6501 - pin 6 (LE) CH3 : IC6501 - (DATA) CH3: IC8802 - pin 1 V: 2V/div. H: 2msec/div. (Input: VIDEO, Signal: Color bar) V: 1V/div. (Input : VIDEO, Signal : Color bar) V: 1V/div. (Input : VIDEO, Signal : Color bar) CH1 ← GND CH1 H : 2msec/div CH1 ←GND CH2 + GND CH2 ← GND CH3 + GND CH3 + GND CH2 CH1 --GND CH1 ←GND +-GND CH2 ←GND CH2 ←GND СНЗ 500nsec/div 500nsec/div CH3 -- GND CH3 ← GND MANYMAY 2 CH1 : D6706 Cathode CH2 : D6703 Cathode CH1 : IC6501 - pin 5 (HBLK) CH2 : IC6501 - pin 3 (LBLK) CH3 : IC6501 - pin 2 (HZ) CH1 : IC8801 - pin 3 CH2 : IC8801 - pin 7 CH3 : IC8802 - pin 1 CH3 : D6708 Cathode V: 2V/div. (Input : VIDEO, Signal : Color bar) V: 1V/div. (Input : VIDEO, Signal : Color bar) V: 2V/div. H: 2msec/div. (Input: VIDEO, Signal: Color bar) CH1 GND CH2 ← GND CH2 ← GND 2msec/div -GND 2msec/div CH3 -GND CH3 -GND CH1 CH2 + GND CH₂ CH1 -GND -GND CH2 -GND CH3 ←GND 500nsec/div СНЗ 500nsec/div CH3 + GND -GND **←**GND 3 CH1 : Q6706 Drain CH2 : Q6710 Soruse V: 10V/div. (Input : VIDEO, Signal : Color bar) CH₁ +GNE CH2 2msec/div -GND CH1 -GND 500nsec/div CH2 -GND 4 CH1 : Q6706 Drain CH2 : Q6710 Soruse V: 10V/div. (Input : PC, Signal : Color bar) CH1 -GND 2msec/div CH2 -GND CH1 -GND 500nsec/div CH2 +-GND 5 CH1 : Q6708 Drain CH2 : Q6710 Drain V: 10V/div. (Input : VIDEO, Signal : Color bar) CH1 +GND CH2 CH1 500nsec/di CH2

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Measurement condition

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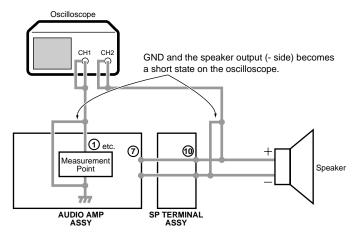
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Video Input Signal : FULL FIELD COLOR-BAR Audio Input Signal : 1kHz Sine Carve 0.2Vrms

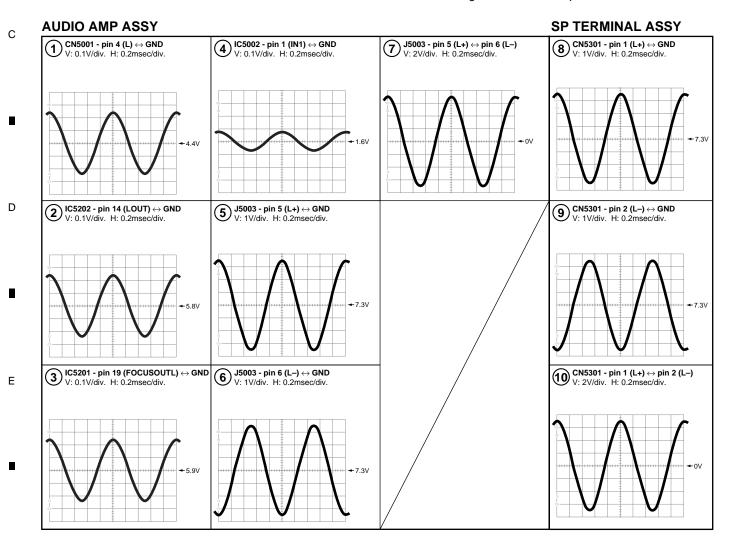
: 60 (MAX) AV Selection : STÀNDÁRD **FOCUS** : OFF

Caution in the measurement

Audio Power Amp. (IC5002: LA4628) on the AUDIO AMP Assy is BTL system, and, as for the power amplifier and the speaker output, \pm poles becomes hot for the ground. Therefore be careful not to connect the measuring instrument as the following figures. (Power amplifier may be damaged.)



Wrong connection example



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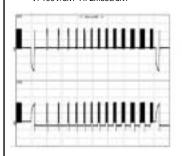
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Sustain Waveform (1 field)

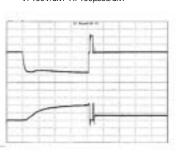
ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

V: 100V/div. H: 2msec/div. ch 2: K2220 (Y.PSUS) - K2219 (SUSGND) V: 100V/div. H: 2msec/div.



● Sustain Waveform (reset pulse) ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

V: 100V/div. H: 100μsec/div. ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND) V: 100V/div. H: 100μsec/div.



Sustain Waveform

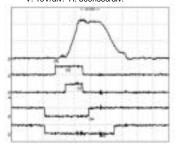
ch 1: K2220 (Y.PSUS) - K2219 (SUSGND)

V: 100V/div. H: 500nsec/div. ch 2 : K2028 (YSUS_U) - K2024 (DGND)

V: 10V/div. H: 500nsec/div.

ch 3 : K2027 (YSUS_B) - K2024 (DGND) V: 10V/div. H: 500nsec/div. ch 4 : K2029 (YSUS_D) - K2024 (DGND)

V: 10V/div. H: 500nsec/div. ch 5: K2037 (YSUS_G) - K2024 (DGND) V: 10V/div. H: 500nsec/div.



Sustain Waveform (sustain) First half

ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

V: 50V/div. H: 5μsec/div. ch 2: K2220 (Y.PSUS) - K2219 (SUSGND)

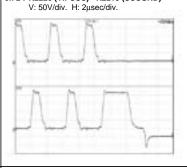
V: 50V/div. H: 5µsec/div.



Sustain Waveform (sustain) Last half

ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

V: 50V/div. H: 2μsec/div. ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)

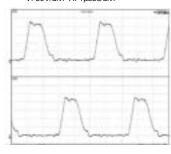


Sustain Waveform (1 field)

ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

V: 50V/div. H: 1µsec/div. ch 2: K2220 (Y.PSUS) - K2219 (SUSGND)

V: 50V/div. H: 1µsec/div.



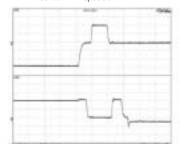
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Sustain Waveform (reset pulse)

ch 1: K3107 (X.PSUS) - K3201 (SUSGND)

V: 100V/div. H: 5μsec/div. ch 2 : K2220 (Y.PSUS) - K2219 (SUSGND)

V: 100V/div. H: 5µsec/div.



Drive Pulse Waveforms

Y Drive Pulse Control Waveform (1 field)

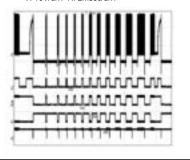
ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND) V: 100V/div. H: 2msec/div.

ch 2 : K2039 (YCP_MSK) - K2024 (DGND) V: 10V/div. H: 2msec/div. ch 3 : K2040 (YSUS_MSK) - K2024 (DGND)

V: 10V/div. H: 2msec/div. ch 4: K2041 (OFS) - K2024 (DGND)

V: 10V/div. H: 2msec/div.

ch 5 : K2053 (SOFT_D) - K2024 (DGND) V: 10V/div. H: 2msec/div.



Y Drive Pulse Control Waveform (1 sub-field)

ch 1 : K2220 (Y.PSUS) - K2219 (SUSGND)

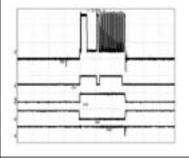
V: 100V/div. H: 50µsec/div.

ch 2: K2039 (YCP_MSK) - K2024 (DGND)
V: 10V/div. H: 50µsec/div.

ch 3 : K2040 (YSUS_MSK) - K2024 (DGND) V: 10V/div. H: 50µsec/div

ch 4 : K2041 (OFS) - K2024 (DGND)
V: 10V/div. H: 50µsec/div.
ch 5 : K2053 (SOFT_D) - K2024 (DGND)

V: 10V/div. H: 50µsec/div.



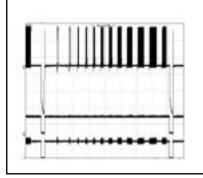
X Drive Pulse Control Waveform (1 field)

ch 1 : K3107 (X.PSUS) - K3201 (SUSGND)

V: 100V/div. H: 2msec/div. ch 2: K3017 (XCP_MSK) - K3005 (DGND)

V: 10V/div. H: 2msec/div. ch 3: K3015 (XSUS_MSK) - K3005 (DGND)

V: 5V/div. H: 2msec/div.



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5. PCB PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

*Ex.*2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{-1} \rightarrow 5621 \dots RN1/4PC[5][6][2][1]F$

Mark	No. Description	Part No.	Mark No. Description	Part No.
LI	ST OF ASSEMBLIES			
	1SCAN FUKUGO ASSY	AWV1969		
	2SCAN (A) ASSY	AWZ6724	SCAN (B) ASSY [AW	Z6725]
	2SCAN (B) ASSY	AWZ6725	SEMICONDUCTORS	-
	2X CONNECTOR (A) ASSY	AWZ6726	IC6001-IC6006	SN755864APZP
	2X CONNECTOR (B) ASSY	AWZ6727	D6007	KU10N16
	2BRIDGE A ASSY (AWZ6728	20001	11010110
	2BRIDGE B ASSY	AWZ6729	<u>CAPACITORS</u>	
	2BRIDGE C ASSY	AWZ6730		ACG1088
	2BRIDGE D ASSY	AWZ6731	C6001,C6002,C6011,C6012	ACG1088 ACG1088
			C6021,C6022,C6031,C6032	
NSP	1ADDRESS FUKUGO ASSY	AWV1928	C6041,C6042,C6051,C6052	ACG1088
NSP	2ADR CONNECT A ASSY	AWZ6678	(0.1uF/250V) C6004,C6020,C6029,C6033,C6049	CCSRCH151J50
NSP	2ADR CONNECT B ASSY	AWZ6679	C6004,C6020,C6029,C6033,C6049	CCSKCH13133
NSP	2ADR CONNECT C ASSY	AWZ6680	C6058,C6060,C6062-C6066	CCSRCH151J50
NSP	2ADR CONNECT D ASSY	AWZ6681	C6005,C6009,C6013,C6015	CCSRCH181J5
	2ADR RESONANCE ASSY	AWZ6751	C6026,C6027,C6038,C6040,C6044	CCSRCH181J5
			C6048.C6054.C6059	CCSRCH181J5
	1X DRIVE ASSY	AWV1985	C6007,C6008,C6014,C6019,C6025	CCSRCH331J5
NSP	1HD Y DRIVE ASSY	AWV1991	00000 00005 00000 00040 00047	000001100415
	2SUB ADDRESS A ASSY	AWZ6692	C6028,C6035,C6039,C6046,C6047	CCSRCH331J5
	2SUB ADDRESS B ASSY	AWZ6693	C6056,C6057 C6003,C6006,C6017,C6018	CCSRCH331J5
	2SENSOR ASSY	AWZ6696		CCSRCH390J50
	2Y DRIVE ASSY	AWZ6749	C6023,C6024,C6034,C6037,C6043 C6045,C6053,C6055	CCSRCH390J50 CCSRCH390J50
	1DIGITAL VIDEO ASSY	AWV1971	C6010,C6016,C6030,C6036,C6050	CKSRYB105K6I
			C6061	CKSRYB105K6F
NSP	1HD FUKUGO ASSY	AWV1952	C0001	CNONTETIONO
	2LED ASSY	AWZ6655	RESISTORS	
	2FRONT KEY ASSY	AWZ6656		DAD 40004 I
	2FRONT KEY CONN ASSY	AWZ6657	R6007,R6012,R6021,R6028,R6032	RAB4C221J
	2IR (P) ASSY	AWZ6658	R6040	RAB4C221J
	2MR INTERFACE ASSY	AWZ6699	Other Resistors	RS1/16S###J
NSP	1HD AUDIO ASSY	AWV1935	<u>OTHERS</u>	
	2AUDIO AMP ASSY	AWZ6687	CN6001 15P CONNECTOR	AKP1218
	2SP TERMINAL ASSY	AWZ6688	K6001,K6012,K6018,K6025,K6031 K6038,K6044 TEST PIN	AKX9002 AKX9002
<u>^</u>	1SW Power Supply Module	AXY1059		
			SCAN (A) ASSY [AW	Z6724]
			<u>SEMICONDUCTORS</u>	
			IC6201-IC6206	SN755864APZP
			D6207	KU10N16
			<u>CAPACITORS</u>	
			C6201,C6202,C6212,C6213	ACG1088

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(0.1uF/250V)

C6222,C6223,C6232,C6233

C6242,C6243,C6252,C6253

C6251,C6259,C6262-C6266

C6203,C6205,C6220,C6231,C6235

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ACG1088

ACG1088

CCSRCH151J50

CCSRCH151J50

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Mark No. Description		Mark No. Description	Part No.		
C6206,C6210,C6215,C6219,C622 C6229,C6236,C6240,C6244,C624 C6255,C6260		BRIDGE D ASSY [AW	Z6731]		
C6208,C6209,C6217,C6218,C622	6 CCSRCH331J50	SEMICONDUCTORS D6451	D1FL20U(S)		
C6230,C6238,C6239,C6245,C625 C6257,C6258 C6204,C6207,C6214,C6216	0 CCSRCH331J50 CCSRCH331J50 CCSRCH390J50	CAPACITORS C6451 (0.1uF/100V)	ACG1098		
C6224,C6225,C6234,C6237 C6248,C6249,C6254,C6256	CCSRCH390J50 CCSRCH390J50	OTHERS			
C6211,C6221,C6228,C6241,C624 C6261	7 CKSRYB105K6R3 CKSRYB105K6R3	CN6451	B4B-PH-SM3		
	CNONTBTOONONS	ADR CONNECT A AS	SY [AWZ6678]		
RESISTORS R6207,R6209,R6222,R6228,R623	2 PAP4C224 I	<u>SEMICONDUCTORS</u>			
R6207,R6209,R6222,R6228,R623 R6239	2 RAB4C221J RAB4C221J	IC6501	TC74VHC541FT		
Other Resistors	RS1/16S###J	Q6502			
Outer resistors	1101/100111110	Q6503			
OTHERS		D6501	DA221		
CN6201 15P CONNECTOR	AKP1218	COILS AND FILTERS			
K6202,K6212,K6219,K6225,K6231 K6239,K6244 TEST PIN	1 AKX9002 AKX9002	L6501,L6502 (22uH/0.11A)	ATH1081		
. 10_00, 10	7 0 .0002	CAPACITORS			
		C6504,C6513-C6520	ACC110E		
X CONNECTOR (A)	ASSY [AWZ6726]	C6504,C6513-C6520 C6528 (330pF/100V)			
RESISTORS		C6531,C6533,C6534 (47uF/6.3V)			
All Resistors	RS1/16S###J	C6536-C6538			
7 iii Noolololo	NO II TOOMIIIIO	C6507-C6510,C6522-C6525,C6532	CKSRYF104Z16		
X CONNECTOR (B) RESISTORS	ASSY [AWZ6727]	C6535	CKSRYF104Z16		
All Resistors	RS1/16S###J	RESISTORS R6519-R6522,R6526,R6528 R6530,R6531,R6534-R6537,R6541	RAB4C100J RAB4C100J		
BRIDGE A ASSY [A SEMICONDUCTORS	WZ6728]	R6543,R6545,R6547 R6516 Other Resistors	RAB4C473J		
D6421	D1FL20U(S)	Other Resistors	K3 1/103###J		
		<u>OTHERS</u>			
CAPACITORS C6421 (0.1uF/100V)	ACG1098	CN6501 55P CONNECTOR	AKM1202		
<u>OTHERS</u>		ADR CONNECT B AS	SY [AWZ6679]		
CN6421 PH CONNECTOR	B4B-PH-SM3	SEMICONDUCTORS			
		IC6601 Q6602			
BRIDGE B ASSY [A	WZ67291	Q6603			
SEMICONDUCTORS		D6601			
D6431	D1FL20U(S)				
20101	<i>3</i> 11 22 3 5 (3)	COILS AND FILTERS			
CAPACITORS		 L6601,L6602 (22uH/0.11A)	ATH1081		
C6431 (0.1uF/100V)	ACG1098	,			
		CAPACITORS	1004405		
<u>OTHERS</u>		C6604,C6613-C6620			
CN6431 PH CONNECTOR	B4B-PH-SM3	C6628 (330pF/100V) C6631,C6633,C6634 (47uF/6.3V)			
		C6636-C6638			
	W767201	C6607-C6610,C6622-C6625,C6632			
BRIDGE C ASSY [A	(VVZ673U]	00001 00010,00022 00020,00002	CHOILI TO IZTO		
<u>SEMICONDUCTORS</u>		C6635	CKSRYF104Z16		
D6441	D1FL20U(S)		- ·-		
		<u>RESISTORS</u>			
<u>CAPACITORS</u>		R6619-R6622,R6626,R6628	D1FL20U(S) ACG1098 B4B-PH-SM3 ASSY [AWZ6678] TC74VHC541FT 2SC2712 2SK209 DA227 ATH1081 ACG1105 ACG1105 ACG1105 ACG1105 CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16 AKM1202 ASSY [AWZ6679] TC74VHC541FT 2SC2712 2SK209 DA227 ATH1081 ACG1105 ACG1105 ACH1341 CCSRCH121J50 CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16 CKSRYF104Z16 ACG1105 A		
C6441 (0.1uF/100V)	ACG1098	R6630,R6631,R6634-R6637,R6641			
, ,		R6643,R6645,R6647			
OTHERS		R6616			
CN6441 PH CONNECTOR	B4B-PH-SM3	Other Resistors			
5.15 111 551 ALE 1010	2.2.11000	2.1.5			

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	1		2		3		4
	Mark No.	Description	Part No.		Mark No.	Description	Part No.
	<u>OTHERS</u>				Q6704,Q6705,Q	6712	2SB1132
Α	CN6601 55	SP CONNECTOR	AKM1202		Q6701-Q6703 Q6710,Q6711		2SD1664 2SK3483-Z
	ADR (CONNECT C AS	SY [AW76680]		Q6706-Q6709		FX20ASJ-2
	SEMICONDU		01 [AW20000]		D6701,D6703,D6	•	1SS355
	IC6801	301010	TC74VHC541FT		D6709,D6710,D6 D6711-D6714	5/17,D6/18	D1FL20U(S) SPX-62S
_	Q6802		2SC2712		D6702,D6705,D6	6716	UDZ15B
	Q6803 D6801		2SK209 DA227		0011 0 4110 511	TEDO	
	D0001		DAZZI		COILS AND FIL L6704 CHOKE		ATH1121
	COILS AND				L6704 CHOKE	COIL	AIHIIZI
	L6801,L6802	! (22uH/0.11A)	ATH1081		CAPACITORS C6716		ACE1162
В	CAPACITOR				C6720,C6721 ((0.01uF/100V)	ACG1101
	C6804,C681		ACG1105		C6722 (0.0068	F/100V)	ACG1102
	C6828 (330 C6831 C683	pF/100V) 3,C6834 (47uF/6.3V)	ACG1105 ACH1341		C6703-C6708	'	ACH1347
	C6836-C683		CCSRCH121J50		C6701,C6702,C6	5709	CEHV470M16
	C6807-C681	0,C6822-C6825,C6832	CKSRYF104Z16		C6710,C6711,C6	6713	CKSRYF104Z16
	C6835		CKSRYF104Z16		RESISTORS		
	RESISTORS				All Resistors		RS1/16S###J
		2,R6826,R6828	RAB4C100J		OTHERS		
	·	1,R6834-R6837,R6841	RAB4C100J			ONNECTOR	AKP1221
С	R6843,R684 R6816	5,R6847	RAB4C100J RAB4C473J		CN6702 PH C		B4B-PH-SM3
	Other Resisto	ors	RS1/16S###J		CN6703 PH CO	ONNECTOR	B5B-PH-SM3
	OTHERS				V DDIVE		40051
		P CONNECTOR	AKM1202			ASSY [AWV	1985]
_					[X LOGIC BLOCK] SEMICONDUC	4	
	ADD C	CONNECT D AS	SV [VM26881]		IC3003	IONO	PE1012A
	SEMICONDU		01 [AW20001]		IC3004		TC74ACT540FT
	IC6901	<u> </u>	TC74VHC541FT		IC3001,IC3008		TC74ACT541FT
	Q6902		2SC2712		COILS AND FIL	TERS	
_	Q6903		2SK209		L3001		LFEA100J
D	D6901		DA227				
	COILS AND	FILTERS			CAPACITORS		CELLAT 470M4C
	L6901,L6902	(22uH/0.11A)	ATH1081		C3005 C3001,C3003,C3	3004,C3006	CEHAT470M16 CKSRYF104Z50
	CAPACITOR	<u>S</u>			RESISTORS		
	C6904,C691		ACG1105		R3009-R3012		RAB4C0R0J
	C6928 (330		ACG1105 ACH1341		R3001,R3003,R3	3026,R3029	RAB4C470J
	C6936-C693	3,C6934 (47uF/6.3V) 8	CCSRCH121J50		R3002,R3005,R3	3030,R3033	RAB4C472J
		0,C6922-C6925,C6932	CKSRYF104Z16		Other Resistors		RS1/16S###J
	C6935		CKSRYF104Z16		OTHERS		
Е			0.10.1		CN3001 30P C	ONNECTOR	KF050HA30L
	RESISTORS						
		2,R6926,R6928 1,R6934-R6937,R6941	RAB4C100J RAB4C100J		[X SUS BLOCK]		
	R6943,R694	· ·	RAB4C100J		SEMICONDUC [*]	<u>TORS</u>	
_	R6916		RAB4C473J		IC3102		HCPL-M611
	Other Resisto	ors	RS1/16S###J		IC3200,IC3201 IC3101		STK795-470 TC74ACT541FT
	OTHERS				IC3103,IC3104,IC	C3106,IC3107	TND301S
	· · · · · · · · · · · · · · · · · · ·	P CONNECTOR	AKM1202		IC3110,IC3113		TND301S
					IC3109		UPC78L05T
F	ADR F	RESONANCE AS	SSY [AWZ6751]		Q3116,Q3119,Q	3120	2SJ522
	SEMICONDU				Q3101 Q3103-Q3106,Q	3109-⊖3114	2SK2503 FS16VS-9
	IC6704	<u> </u>	ICP-S1.0		Q3124-Q3127	0100-Q011 4	FS16VS-9
	IC6701-IC67	03	TND301S				
	52		PD	P-433F	PU		
	1		2		3		4

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Mark No. Description	Part No.	Mark No. Description Part No.
Q3122,Q3128	FS7VS-14A	IC3701 MIP161
Q3102	HN1B04FU	IC3702-IC3704 TLP181(GR)
D3119	1SS184	Q3701 2SC2712 A
D3108,D3124,D3125,D3133	1SS355	Q3800 HN1A01FU
D3126,D3131,D3200,D3203,D3205	D1FL40	D3710,D3711 1SS355
D3208.D3212-D3215	D1FL40	D3705,D3706 D1FL20U(S)
D3101,D3102,D3117,D3202,D3207	EC11FS4	D3702 EC8FS6
D3210,D3211	EC11FS4	D3708,D3709,D3713 RD110P
D3216,D3217	RB751V-40	D3703 UDZ18B
D3120,D3127-D3129,D3135,D3136	UDZ15B	D3707 UDZ\$5.6B
COILS AND FILTERS		D3101
L3206,L3207	ATH1112	COILS AND FILTERS
RADIAL LEAD INDUCTOR		L3701 RADIAL LEAD INDUCTOR ATH1110
L3201,L3204 CHOKE COIL	ATH1113	T3701 VRN TRANSFORMER ATK1153 B
L3202,L3205,L3210,L3211	ATH1118	0.171.017070
CHOKE COIL		CAPACITORS
L3101	LFEA100J	C3701 (22uF/315V) ACH1345 C3717 (47uF/350V) ACH1346
L3107,L3108	LFEA101J	C3704 (470F/350V) ACF1346 C3704 CEHAT101M16
,		C3706,C3711,C3714 CEHAT101M25
<u>CAPACITORS</u>		C3712 CEHAT331M16
C3205,C3206,C3212,C3213	ACE1160	
C3225,C3226 (1.5uF)	ACE1160	C3705 CKSQYF104Z50
C3139,C3143 (0.1uF/630V) C3223,C3224 (100pF/630V)	ACG1092 ACG1104	C3703,C3707,C3708,C3710 CKSRYB104K16 C3715,C3716 CKSRYB104K16
C3132 (47uF/350V)	ACH1346	03/10 ₁ 03/10
,		<u>RESISTORS</u>
C3200-C3202,C3207-C3209	ACH1352	R3732 RS1/16S1001F
(330uF/280V)	OF!!!#T404N440	R3806 RS1/16S1802F
C3112 C3102,C3107,C3115,C3204,C3211	CEHAT101M16 CEHAT101M25	R3701-R3704,R3706-R3717 RS1/16S1803F
C3101	CEHAT221M25	R3805 RS1/16S2702F R3731 RS1/16S3900F
		K3/31 K3//10339001
C3104,C3106	CEHAT470M16	R3802 RS1/16S5601F
C3135	CEHAT470M25	R3738,R3739 RS1/2S102J
C3154,C3163 C3137,C3138	CKSRYB332K50 CKSRYB473K25	R3800,R3801 RS1/2S823J
C3103,C3105,C3108,C3109,C3111	CKSRYF104Z50	VR3701 (1kohm) ACP1089 Other Resistors RS1/16S###J
C3113,C3114,C3117,C3130,C3140	CKSRYF104Z50	D
DECICTORS		Y DRIVE ASSY [AWZ6749]
RESISTORS	ACN4456	[Y DRIVE LOGIC BLOCK]
R3183,R3184,R3187 (15ohm) R3113,R3114,R3121,R3122,R3126	ACN1156 RAB4C100J	<u>SEMICONDUCTORS</u>
R3132,R3140,R3141	RAB4C100J	IC2006 PE1013B
R3212,R3217,R3230,R3234,R3237	RS1/10S184J	IC2007 TC74ACT540FT
R3240,R3242,R3245	RS1/10S184J	IC2001,IC2003-IC2005 TC74ACT541FT IC2101 TLP181(GR)
D2011 D2012 D2014 D2040	DQ1/160000F	102101 ILF101(GK)
R3211,R3213,R3214,R3218 R3134,R3163	RS1/16S2000F RS1/2S100J	COILS AND FILTERS
R3103	RS1/2S100J RS1/2S102J	L2001 LFEA100J
R3109	RS1/2S2R2J	-
R3102	RS1/2S561J	<u>CAPACITORS</u>
D2245 D2246	DC4NANAT404 I	C2101 CEHAT100M50
R3215,R3216 R3228,R3229	RS1MMF101J RS1MMF122J	C2003 CEHAT470M16 C2001,C2004,C2005,C2007,C2008 CKSRYF104Z50
R3178,R3179	RS3LMF181J	C2010,C2104,C2104,C2122 CKSRYF104Z50
VR3200,VR3204 (1kohm)	ACP1089	0.10.111.10.120
Other Resistors	RS1/16S###J	<u>RESISTORS</u>
OTHERS		R2015-R2018 RAB4C0R0J
OTHERS	AKY0000	R2001,R2002,R2005,R2011 RAB4C470J
K3203,K3213 TEST PIN KN3105-KN3114 GROUND PLATE	AKX9002 ANK-142	R2037,R2038 RAB4C470J R2035,R2036,R2039,R2040 RAB4C472J
CN3101 13P PLUG	KM250MA13	R2035,R2036,R2039,R2040 RAB4C472J Other Resistors RS1/16S###J
		F
		<u>OTHERS</u>
[X DD CON BLOCK]		CN2001 50P CONNECTOR AKM1201
SEMICONDUCTORS	A B 14 4 C 4 B 4	
IC3712	AN1431M	DDD 400DU
	_	PDP-433PU 53

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<u> Mark No. Description</u>	Part No.	Mark No. Description	Part No.
Y DRIVE SUS BLOCK]		R2263,R2264	RS1/2S100J
SEMICONDUCTORS		R2203	RS1/2S102J
IC2202,IC2208	HCPL-M611	R2209	RS1/2S2R2J
IC2206,IC2214	STK795-470	R2202	RS1/2S561J
		R2278,R2303	RS1MMF101J
IC2201	TC74ACT541FT	11270,112000	110111111111111111111111111111111111111
IC2203,IC2204,IC2210,IC2212	TND301S	R2233,R2234	RS1MMF152J
IC2213,IC2216,IC2217	TND301S	•	
		R2274,R2275	RS1MMF471J
IC2205,IC2209	UPC78L05T	R2298,R2299	RS2MMF3R3J
Q2203	2SJ281	R2276,R2281	RS3LMFR82J
Q2204,Q2205	2SJ522	VR2201,VR2205 (1kohm)	ACP1089
Q2201	2SK2503		
Q2215,Q2217-Q2221,Q2226,Q2227	FQB34N20	Other Resistors	RS1/16S###J
O2222 O2222	FOR24N20	OTHERS	
Q2232,Q2233	FQB34N20	K2206,K2218 TEST PIN	AKX9002
Q2210,Q2211	FS16VS-9		
Q2209	HN1B04FU	KN2201-KN2210 GROUND PLATE	ANK-142
D2225	1SS184	CN2201 15P PLUG	KM250MA15
D2202,D2204	1SS226		
D2211	1SS355	[Y DRIVE SCAN BLOCK]	
D2201	D1FL20U(S)	SEMICONDUCTORS	
D2203,D2205,D2214,D2216,D2223	D1FL40		LIODI MOTT
		IC2501,IC2502,IC2505,IC2510	HCPL-M611
D2226,D2227,D2243	D1FL40	IC2514	HCPL-M611
D2209	DF20L60	IC2504,IC2506	TC74ACT540F
D2208,D2210,D2212,D2215	EC11FS4	COILS AND FILTERS	
D2221,D2222,D2228,D2239	EC11FS4	L2501-L2503	LEEA4001
D2224,D2229	RB751V-40	LZ3U1-LZ5U3	LFEA100J
D2206,D2207	UDZ15B	0.15.40:	
,		<u>CAPACITORS</u>	
COULS AND EUTEDS		C2506,C2527	CEHAT220M2D
COILS AND FILTERS		C2502	CEHAT221M16
L2207 RADIAL LEAD INDUCTOR	ATH1110	C2524,C2525	CEHAT470M16
L2213,L2214	ATH1112	C2501,C2503,C2505,C2507,C2508	CKSRYF104Z5
RADIAL LEAD INDUCTOR		C2513,C2517	CKSRYF104Z5
L2206,L2211 CHOKE COIL	ATH1113	02010,02017	ONON 11-104Z0
L2208,L2212,L2215,L2216	ATH1118	DEGLOTODO	
, , , -, -	- -	<u>RESISTORS</u>	
CHOKE COIL		R2502,R2504	RAB4C101J
L2210	LFEA100J	Other Resistors	RS1/16S###J
L2203,L2205	LFEA101J	<u>OTHERS</u>	
L2201	LFEA470J		A IZN 44 000
		CN2501,CN2502	AKM1200
<u>CAPACITORS</u>		15P CONNECTOR	
C2228,C2230,C2231,C2250-C2252	ACE1160		
(1.5uF)			
C2209,C2210 (0.1uF/630V)	ACG1092	[Y DRIVE DD-CON BLOCK]	
C2233,C2248 (100pF/630V)	ACG1092 ACG1104	SEMICONDUCTORS	
		IC2715-IC2717	AN1431M
C2211 (47uF/350V)	ACH1346		
C2216,C2217,C2219,C2234-C2236	ACH1352	IC2709	HCNR201
(330uF/280V)	ACH1346	IC2708,IC2710,IC2718	M5223AFP
		IC2711	MIP0223SC
C2221,C2225	CEHAT101M16	IC2701	MIP161
C2204,C2227,C2237,C2240,C2247	CEHAT101M25		
C2202	CEHAT221M25	IC2704	MIP301
C2232	CEHAT331M2A	IC2702,IC2703,IC2705-IC2707	TLP181(GR)
C2218,C2224,C2229	CEHAT470M16	IC2712-IC2714	TLP181(GR)
J_L 10,0_LLT,0_LLU	JEI WATTOWN TO	Q2701,Q2703	2SC2712
C2212 C2214		Q2704	HN1A01FU
C2212,C2214	CEHAT470M25	QZ104	INTAUTEU
C2264,C2270	CKSRYB472K50	DOTAG DOTAG DOTAG	1000==
C2201,C2203,C2205,C2208,C2213	CKSRYF104Z50	D2712,D2717,D2718,D2732,D2734	1SS355
C2220,C2222,C2223,C2238,C2239	CKSRYF104Z50	D2736,D2737	1SS355
C2241,C2242	CKSRYF104Z50	D2704,D2706,D2707,D2715,D2726	D1FL20U(S)
		D2728	D1FL20U(S)
RESISTORS		D2711	D1FS4
R2235,R2273,R2291,R2305,R2315	RAB4C100J		
R2317,R2342	RAB4C100J	D2702,D2714,D2727	EC11FS4
,		D2725	EC8FS6
R2253,R2256,R2270,R2283,R2332	RS1/10S184J	D2733	RD91P
R2338,R2354,R2355	RS1/10S184J	D2733 D2724	U1ZB330
	DC4/4CCOOOC	U4144	いしついい
R2359-R2362	RS1/16S2000F	D2713	U1ZB36

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Mark No.	Description	Part No.	Mark No. Description	Part No.	
			Q8802	2SA1163	
D2740		UDZ12B	Q8804,Q8805,Q8808	2SC2712	
D2709,D2716		UDZ3.6B	Q8806	2SK209	Α
D2729,D2731		UDZ33B			
D2703,D2710		UDZ36B	D8801-D8803,D8809	1SS355	
D2720,D2730,I	D2739	UDZS5.6B	D8806,D8807	DA227	
			D8808	UDZ27B	
COILS AND F	ILTERS		D8804	UDZS5.1B	
L2701 RADIA	AL LEAD INDUCTOR	ATH1110			_
T2702 SMD 7	TRANSFORMER	ATK1150	COILS AND FILTERS		
T2703 VH TR	RANSFORMER	ATK1151	L8801 (100uH/0.45A)	ATH1074	
T2701 VOFS	TRANSFORMER	ATK1152	L8802,L8803 (22uH/0.11A)	ATH1081	
<u>CAPACITORS</u>			<u>CAPACITORS</u>		ŀ
C2701,C2735	(22uF/315V)	ACH1345	C8806	CCSRCH101J50	_
C2706,C2725,0		CEHAT101M16	C8822	CEHV100M16	В
C2709,C2718,0	C2720,C2739,C2745	CEHAT101M25	C8804	CEHV100M35	
C2708		CEHAT101M2A	C8808	CEHV470M16	
C2740		CEHAT101M2C	C8807	CEVNP2R2M35	
C2704		CELIATO04 MOE	C0002 C0005 C0000 C0047	CKSDVE104746	
C2704		CEHAT221M25	C8802,C8805,C8809-C8817	CKSRYF104Z16	
C2715 C2746		CEHAT331M16 CEHAT331M25	C8820,C8821	CKSRYF104Z16	
			DECICTORS		ı
C2723,C2751		CEHAT470M16	RESISTORS		ı
C2712		CEHAT471M35	R8806,R8807,R8837,R8838,R8841	RS1/16S1002D	ı
C2711		CKSRYB103K50	R8858	RS1/16S1202D	
-	C2713,C2714,C2719	CKSRYB104K16	R8828,R8829,R8832,R8846,R8864	RS1/16S2202D	
	C2713,C2714,C2719 C2724,C2727,C2729	CKSRYB104K16	R8826,R8827,R8839,R8840	RS1/16S4701D	С
	C2736,C2742,C2743	CKSRYB104K16	R8833	RS1/16S4702F	Ŭ
C2747-C2749	02130,02142,02143	CKSRYB104K16	Dooro	D04/40050005	ı
02141-02149		CROKTD104R10	R8859	RS1/16S5602F	
C2728,C2730		CKSRYB471K50	R8801,R8802	RS1/2S1R5J	ı
C2707,C2738		CKSRYF104Z50	R8803-R8805	RS1/2S2R2J	ŀ
02101,02100		ORORTT 10-12-00	Other Resistors	RS1/16S###J	
RESISTORS			<u>OTHERS</u>		•
R2735,R2791		RS1/16S1000F		A IZN 44 20 E	
R2780		RS1/16S1103F	CN8803 23P CONNECTOR	AKM1205	
R2715,R2728,I	R2733	RS1/16S1201F	CN8801 PH CONNECTOR CN8802 PH CONNECTOR	S3B-PH-SM3 S8B-PH-SM3	
R2787	112700	RS1/16S1302F	CN0002 PH CONNECTOR	30B-PH-3IVI3	
R2766		RS1/16S1501F			
			CUD ADDDECC D ACC	CV [AW76602]	D
R2785		RS1/16S1503F	SUB ADDRESS B AS	51 [AWZ0093]	ŀ
R2777,R2786		RS1/16S1802F	<u>SEMICONDUCTORS</u>		
R2776		RS1/16S2702F	IC8901,IC8902,IC8904	M5223AFP	
R2705,R2706,I	R2709,R2710,R2778	RS1/16S3002F	IC8903	TC74VHC74FT	ı
R2781		RS1/16S3002F	Q8902	2SA1163	ı
			Q8904,Q8905,Q8908	2SC2712	
R2783		RS1/16S4701F	Q8906	2SK209	
R2734,R2736		RS1/16S4702F	_		
R2779		RS1/16S5102F	D8901-D8903,D8909	1SS355	
R2773		RS1/16S5601F	D8906,D8907	DA227	
R2784		RS1/16S5602F	D8908	UDZ27B	
_			D8904	UDZS5.1B	Е
R2782		RS1/16S6801F	0011 0 4110 511 555		_
R2744-R2746,		RS1/16S9102F	COILS AND FILTERS		ı
R2711,R2716,I	R2767,R2770	RS1/2S102J	L8901 (100uH/0.45A)	ATH1074	ı
R2788,R2792		RS1/2S561J	L8902,L8903 (22uH/0.11A)	ATH1081	ŀ
R2771,R2772		RS1/2S823J	0.1.0.1.0.0.0		
D0740		DOOL MEGZO!	CAPACITORS		_
R2712	20 (411)	RS3LMF272J	C8906	CCSRCH101J50	•
VR2702,VR270	` '	ACP1089	C8922	CEHV100M16	
VR2701 (2.2l	,	ACP1090	C8904	CEHV100M35	
Other Resistors		RS1/16S###J	C8908	CEHV470M16	
			C8907	CEVNP2R2M35	
SUR AF	DDRESS A AS	SY [AW76692	C8902,C8905,C8909-C8917	CKSRYF104Z16	_
		O : [A1120032	C8920,C8921	CKSRYF104Z16	F
SEMICONDUC		MEGGGAED			
IC8801,IC8802	.,IU88U4	M5223AFP	<u>RESISTORS</u>		
IC8803		TC74VHC74FT	R8906,R8907,R8937,R8938,R8941	RS1/16S1002D	
			PDP-433PU	55	

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	<u>Description</u>	Part No.	Mark No. Descri	ption Part No.
R8958		RS1/16S1202D	<u>CAPACITORS</u>	
R8928 R8929	R8932,R8946,R8964	RS1/16S2202D	C1123,C1124	CCSRCH7R0D
R8926,R8927,		RS1/16S4701D	•	
	R0939,R0940		C1101	CEV101M4
R8933		RS1/16S4702F	C1102,C1109,C1110,C1111	2-C1116 CKSRYB102K5
			C1129-C1132	CKSRYB102K5
R8959		RS1/16S5602F	C1117,C1121	CKSRYB103K5
R8901,R8902		RS1/2S1R5J	31111,31121	O. COLLID TOOLS
R8903-R8905		RS1/2S2R2J	04400	CKCDVD 470K
Other Resistors	•	RS1/16S###J	C1120	CKSRYB472K5
Other Resistors	5	K31/103###J	C1103-C1108,C1111,C111	
			C1122,C1125-C1128	CKSRYF104Z1
<u>THERS</u>				
CN8903 23P	CONNECTOR	AKM1205	RESISTORS	
CN8901 PH		S3B-PH-SM3		2 D4444
CN8902 PH		S8B-PH-SM3	R1104,R1107,R1110,R1111	
0110302 1111	CONNECTOR	GOD I II GIVIS	R1116,R1121,R1124,R112	·
			Other Resistors	RS1/16S###J
SENSO	R ASSY [AWZ	66961	OTHERS	
EMICONDU	-	-	K1101-K1104,K1107,K1108	3 AKX9002
	CIURS			ANX9002
IC8351		LM50CIM3	TEST PIN	
IC8352		M5223AFP	X1101	ASS1160
			CERAMIC RESONATOR (2	25MHz)
APACITORS				
	<u>!</u>	CE\/470McDo		
C8356		CEV470M6R3	[MODULE UCOM BLOCK]	
C8354		CKSRYB103K50		
C8351,C8355		CKSRYF104Z16	<u>SEMICONDUCTORS</u>	
C8352,C8353		CKSRYF105Z10	IC1204	24LC04B(I)SN
,		-	IC1208	PST9246N
ESISTORS			IC1202	TC74VHC08F1
		D0.//.oc	IC1202	TC74VHC21FT
R8354,R8358		RS1/16S1001F	IC1201	
Other Resistors	S	RS1/16S###J	10 1200	TC74VHC541F
			10:	
			IC1203	TC74VHCT541
DICITA	L VIDEO ASSY	ΓΔWV/10711	IC1206	TC7W126FU
			D1201,D1202	1SS355
NTERFACE BL	.OCK]			
EMICONDU	CTORS		CAPACITORS	
		TC74VHC541FT	•	00000111-011
IC1001-IC1008	3	1011111001111	C1213,C1243-C1245	
IC1001-IC1008		1071111001111	C1213,C1243-C1245 C1235,C1236	
IC1001-IC1008			,	
	ILTERS	ATF1194	C1235,C1236	CCSRCH7R0D CEV470M6R3
IC1001-IC1008	ILTERS		C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5
IC1001-IC1008 OILS AND F F1001-F1006	ILTERS EMI FILTER		C1235,C1236 C1225,C1232	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5
IC1001-IC1008 COILS AND F F1001-F1006 CAPACITORS	ILTERS EMI FILTER	ATF1194	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5
IC1001-IC1008 OILS AND F F1001-F1006	ILTERS EMI FILTER		C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5
IC1001-IC1008 OILS AND F F1001-F1006 APACITORS	ILTERS EMI FILTER	ATF1194	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5
OILS AND F F1001-F1006 APACITORS C1001-C1008	ILTERS EMI FILTER	ATF1194	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5
OILS AND F F1001-F1006 APACITORS C1001-C1008	ILTERS EMI FILTER	ATF1194 CKSRYF104Z16	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044	ILTERS EMI FILTER	ATF1194 CKSRYF104Z16 RAB4C101J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB472K5
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007,	EMI FILTER EMI FILTER R1036,R1063-R1069	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB472K5
C1001-IC1008 COILS AND F F1001-F1006 CAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017,	R1036,R1063-R1069 R1019,R1020,R1027	ATF1194 CKSRYF104Z16 RAB4C101J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB472K5 7 CKSRYF104Z1
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017,	EMI FILTER EMI FILTER R1036,R1063-R1069	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121	CCSRCH7R0E CEV470M6R3 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB472K5 CKSRYF104Z1
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017,	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB472K5 7 CKSRYF104Z1
C1001-IC1008 COILS AND F F1001-F1006 CAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034,	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C1246)	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB472K5 7 CKSRYF104Z1
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043,	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121	CCSRCH7R0E CEV470M6R3 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB472K5 CKSRYF104Z1
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C1246	CCSRCH7R0E CEV470M6R3 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB103K9 CKSRYB472K9 CKSRYF104Z1 CKSRYF104Z1 CKSRYF104Z1
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043,	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C124(RESISTORS R1209,R1214,R1245	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K9 9 CKSRYB102K9 7,C1229 CKSRYB102K9 2,C1247 CKSRYB102K9 CKSRYB103K9 CKSRYB472K9 7 CKSRYF104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1
OILS AND F F1001-F1006 APACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K9 9 CKSRYB102K9 7,C1229 CKSRYB102K9 2,C1247 CKSRYB102K9 CKSRYB103K9 CKSRYB472K9 7 CKSRYF104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1
ESISTORS R1044 R1001-R1007, R1008-R1017, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123; C1239,C1240,C1246,C124; RESISTORS R1209,R1214,R1245 R1242 R1207	CCSRCH7R0E CEV470M6R3 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB102K9 CKSRYB103K9 CKSRYB103K9 CKSRYB103K9 CKSRYB104Z1 CKSRYF104Z1 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C123J
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 EESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, C1051-R1054 Other Resistors	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB472K5 7 CKSRYF104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 EESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, C1040-R1054 Other Resistors	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123; C1239,C1240,C1246,C124; RESISTORS R1209,R1214,R1245 R1242 R1207	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C123J
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, C1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123; C1239,C1240,C1246,C124; RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216	1 CKSRYB102K5 9 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C123J RAB4C473J
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, C1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC' K1001 TEST	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124; C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123; C1239,C1240,C1246,C124; RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB472K5 7 CKSRYF104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C103J RAB4C123J RAB4C473J
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, C1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C1242 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C1236 C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYF104Z1 0,C1231 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, C1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC' K1001 TEST	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C1242 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C1236 C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 RAB4C103J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J
ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors THERS CN1003,CN10 50P CONNEC' K1001 TEST	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123 C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz)
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C1242 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C1236 C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz)
C1001-IC1008 COILS AND F F1001-F1006 CAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors THERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123 C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K9 9 CKSRYB102K9 7,C1229 CKSRYB102K9 2,C1247 CKSRYB102K9 CKSRYB103K9 CKSRYB103K9 CKSRYB104Z1 7 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123 C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K9 9 CKSRYB102K9 7,C1229 CKSRYB102K9 2,C1247 CKSRYB102K9 CKSRYB103K9 CKSRYB103K9 CKSRYB104Z1 7 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH O	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123 C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO	CCSRCH7R0E CEV470M6R3 1 CKSRYB102K9 9 CKSRYB102K9 7,C1229 CKSRYB102K9 2,C1247 CKSRYB102K9 CKSRYB103K9 CKSRYB103K9 CKSRYB104Z1 7 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PHO PANEL UCOM E	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002 B12B-PH-SM3	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123 C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO CN1201,CN1202 8P PLU	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 7 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors EN1003,CN10 50P CONNEC K1001 TEST CN1001 PHO PANEL UCOM E EMICONDUC	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RAB1/16S###J AKM1201 AKX9002 B12B-PH-SM3	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123 C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 2,C1247 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 7 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1008-R1017, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0 EMICONDUC IC1101 IC1103 IC1102	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002 B12B-PH-SM3 HD64F2328VF NC7SZ08P5 PST9228N	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C1236 C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO CN1201,CN1202 8P PLU [DIGITAL BLOCK]	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 8-C1250 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0 EMICONDUC IC1101 IC1103 IC1102 Q1101,Q1103	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002 B12B-PH-SM3 HD64F2328VF NC7SZ08P5 PST9228N DTC143EK	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124: C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO CN1201,CN1202 8P PLU [DIGITAL BLOCK] SEMICONDUCTORS	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYF104Z1 0,C1231 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3 G CKSRY5104X5
ESISTORS R1044 R1001-R1007, R1040-R1043, R1040-R1043, R1051-R1054 Other Resistors ENTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0 PANEL UCOM E EMICONDUC	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002 B12B-PH-SM3 HD64F2328VF NC7SZ08P5 PST9228N	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124 C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C1236 C1239,C1240,C1246,C1246 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO CN1201,CN1202 8P PLU [DIGITAL BLOCK] SEMICONDUCTORS IC1802	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB104Z1 0,C1231 CKSRYF104Z1 RAB4C103J RAB4C103J RAB4C123J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3 G CKS3130
EOILS AND F F1001-F1006 EAPACITORS C1001-C1008 ESISTORS R1044 R1001-R1007, R1032,R1034, R1040-R1043, R1051-R1054 Other Resistors OTHERS CN1003,CN10 50P CONNEC K1001 TEST CN1001 PH 0 EMICONDUC IC1101 IC1103 IC1102 Q1101,Q1103	R1036,R1063-R1069 R1019,R1020,R1027 R1035,R1037,R1038 R1048,R1049	ATF1194 CKSRYF104Z16 RAB4C101J RAB4C103J RAB4C470J RAB4C470J RAB4C470J RS1/16S###J AKM1201 AKX9002 B12B-PH-SM3 HD64F2328VF NC7SZ08P5 PST9228N DTC143EK	C1235,C1236 C1225,C1232 C1201-C1203,C1206-C121 C1214-C1216,C1218,C121 C1223,C1224,C1226,C122 C1237,C1238,C1241,C124: C1234 C1233 C1204,C1205,C1212,C121 C1221,C1222,C1228,C123(C1239,C1240,C1246,C124 RESISTORS R1209,R1214,R1245 R1242 R1207 R1213,R1216 Other Resistors OTHERS X1201 CERAMIC RESONATOR (1 CN1203 PH CONNECTO CN1201,CN1202 8P PLU [DIGITAL BLOCK] SEMICONDUCTORS	CCSRCH7R0D CEV470M6R3 1 CKSRYB102K5 9 CKSRYB102K5 7,C1229 CKSRYB102K5 CKSRYB102K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYB103K5 CKSRYF104Z1 0,C1231 CKSRYF104Z1 RAB4C101J RAB4C103J RAB4C123J RAB4C473J RS1/16S###J ASS1159 6MHz) R B3B-PH-SM3 G CKSRY5104X5

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Mark No.	Description	Part No.	Mark No.	Description	Part No.	
IC1703 IC1501,IC1502	2,IC1601,IC1602	PE5064A TC74VCX541FT	RESISTORS	•	D04/000001	•
IC1702,IC180	1	TC74VHC541FT	R1935,R193 Other Resiste		RS1/2S680J RS1/16S###J	Α
IC1803		TC74VHC74FT				
IC1701 D1301-D1305		TC74VHCT541AFT 1SS226	<u>OTHERS</u>			
D1301-D1303		100220		6 TEST PIN C CONVERTER	AKX9002 AXY1060	
COILS AND F	FILTERS			H CONVERTER H CONNECTOR	B13B-PH-SM3	
F1301-F1304, F1601-F1605		ATF1194 ATF1194				_
		All 1104	MR IN	TERFACE ASS	Y [AWZ6699]	
CAPACITORS	<u> </u>	0000011074150	[INTERFACE E		. [
C1807 C1802		CCSRCH271J50 CEV100M16	SEMICOND			
	,C1406,C1422,C1711	CEV100M16 CEV101M4	IC4011		CXA1875AM	В
C1806,C1322,	,0,700,01722,01711	CEV101M4 CEV101M4	IC4007,IC40	10	M5223AFP	
	,C1604-C1608,C1712	CKSRYB102K50	IC4005		M62320FP	
			IC4001	0.4	PQ05DZ51	
	,C1307-C1321	CKSRYF104Z16	IC4002-IC40	U4	PQ20VZ1U	
	,C1403-C1405	CKSRYF104Z16	IC4013		PST9228N	
	,C1423-C1436,C1501	CKSRYF104Z16	IC4008,IC40	09	TC74HC00AF	
C1503,C1601,	,C1603,C1701-C1710 -C1805	CKSRYF104Z16 CKSRYF104Z16	IC4012		TC74HC4066AF	
C17 13,C1003	-0.1000	UNUN 1 F 1042 10	IC4006		TC74VHCT541AFT	
ESISTORS			Q4003,Q400	4,Q4010	2SA1162	
	,R1606,R1622	RAB4C101J	0.400= 0.11	0.04040.04047.045	0000740	
	-R1315,R1317,R1318	RAB4C220J		9,Q4013,Q4017,Q4018	2SC2712	_
R1321,R1322,	,R1326-R1344,R1407	RAB4C220J	Q4012,Q401 Q4014	6,Q4019-Q4022	DTC124EK HN1A01FU	С
	,R1417,R1418	RAB4C220J	Q4014 Q4008		HN1B04FU	
R1421,R1422,	,R1426-R1444	RAB4C220J		2,Q4005,Q4006	HN1C01FU	
R1501,R1514.	,R1607,R1627,R1701	RAB4C470J	04044 0404	-	DNIOOCO	
	,R1712-R1717	RAB4C470J	Q4011,Q401 D4007,D400		RN2902 1SS184	
R1551,R1552		RS1/2S680J	D4007,D400 D4002-D400		1SS184 1SS355	
Other Resistor	15	RS1/16S###J	CMITOLICO	AND DELAYO		
OTHERS			SWITCHES 2 S4001,S4004	AND RELAYS	ASH1010	
	CONNECTOR	AKM1201	34001,3400	т	A0111010	
	502,CN1504,CN1505	AKM1202	CAPACITOR	S		
,	602,CN1604,CN1605	AKM1202	C4023,C403		CCSRCH102J50	D
55P CONNEC	-	VKX0003	C4025,C403		CCSRCH102J50	
K1301,K1302,	K1308,K1311-K1314	AKX9002		0,C4053,C4054	CCSRCH471J50	
K1316 K1321	K1324,K1326-K1331	AKX9002		4,C4005,C4008,C4010	CEAT101M10	
	K1502,K1601,K1602	AKX9002	C4012,C401	3,C4016,C4041,C4042	CEAT101M10	
K1728,K1729		AKX9002	0.400.4.0.155	0.04050.04050	01/05/5 40=1/05/	
X1801		ASS1146		8,C4050,C4056	CKSRYB105K6R3	
CRYSTAL RES	SONATOR (50.000MHz)		C4043 C4027 C402	8,C4033,C4051	CKSRYB474K10 CKSRYF103Z50	
CNI4EOO CNI4O	202 DU CONNECTOR	DOD DIL CMO		3,C4006,C4007	CKSRYF104Z16	
CN1503,CN16 CN1301 8P	603 PH CONNECTOR	B8B-PH-SM3 CKS3130		5,C4007,C4007 5,C4017-C4019,C4024	CKSRYF104Z16	
	PLOG P CONNECTOR	KF050HA30L				
				1,C4035,C4039,C4040 7,C4049,C4052,C4055	CKSRYF104Z16 CKSRYF104Z16	Е
D-D CONVERT	ER BLOCKI				ONORTH 104210	
SEMICONDU	-		RESISTORS			
Q1902,Q1905		2SC2712		5,R4054,R4066	RAB4C101J	
Q1903		DTC143EK	R4056	4 D 404 F D 444 7	RAB4C471J	
Q1901,Q1904		HN1C01FU	R4007,R401 R4106	4,R4015,R4117	RS1/16S1001F RS1/16S1002F	_
D1903-D1906 D1908	,D1911,D1912	1SS355 HZU2.2B	R4106 R4107		RS1/16S1002F RS1/16S1502F	_
1900			B4000		D04/4000004F	
D1902,D1909		UDZ3.6B	R4098 R4078		RS1/16S2201F RS1/16S2202F	
D1907		UDZS5.1B	R4078 R4074,R409	4	RS1/16S2202F RS1/16S3301F	
D1901		UDZS6.8B	R4074,R409 R4075	7	RS1/16S3301F RS1/16S4701F	_
APACITORS	3		R4057		RS1/16S5601F	F
C1904,C1906,		CEV220M16	A		D04//207277	
	,C1905,C1907-C1911	CKSRYF104Z16	R4124 R4004.R400	5,R4115,R4116	RS1/16S5602F RS1/16S8200F	
			·	0,137110,137110	1.01/10002001	
<u>.</u>	5 ■	6	PDP-433PU	7 -	8	57
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<u>lark No.</u>	Description	Part No.	Mark No. Description	Part No.
R4093		RS1/16S8201F	OTHERS	
R4006		RS2MMF2R2J	K4201-K4207 TEST PIN	AKX9002
Other Resistors	;	RS1/16S###J	X4201	ASS1163
			CRYSTAL RESONATOR (16.000M	
THERS				,
CN4004,CN400)5	AKM1180		
50P CONNECT			[AUDIO BLOCK]	
CN4003 24P	DVI SOCKET	AKP1216	SEMICONDUCTORS	
CN4002 SOC	KET (20P)	AKP1227	Q4403	2SA1162
CN4006,CN400)9	B3B-PH-SM3	Q4401,Q4402	2SC2712
			D4401-D4404	1SS355
3P PH CONNE	CTOR		D-101 D-101	100000
CN4007 7P P	H CONNECTOR	B7B-PH-SM3	<u>CAPACITORS</u>	
CN4008 8P F	LUG	CKS3130	C4408,C4417	CEANP100M50
			C4408,C4417	CEAT101M10
			C4403 C4407	CEAT101M10 CEAT101M25
TMDS RECEIVE	ER BLOCK]		C4407 C4402	CEAT101M25 CEAT220M50
EMICONDUC	CTORS		C4425.C4426	CEAT470M25
IC4201		24LC01B	C4410	CKSRYF104Z16
IC4203		24LC128(I)SN	OTT 10	OKOKII 104210
IC4202		24LC32A	RESISTORS	
IC4205		PST9228N	All Resistors	RS1/16S###J
IC4204		SII861CM208	All Resistors	K51/165###J
			OTHERS	
Q4209,Q4212		2SA1162	OTHERS	D70 D/: 0::-
Q4205,Q4206,	Q4213	DTA124EK	CN4403 7P PH CONNECTOR	B7B-PH-SM3
Q4203,Q4204,	Q4207,Q4208	DTC124EK	CN4404 8P PH CONNECTOR	B8B-PH-SM3
Q4210,Q4211,0	Q4214	DTC124EK		
Q4201,Q4202		HN1C01FU	. ==	
			LED ASSY [AWZ66	55]
D4201		1SS184	SEMICONDUCTORS	
D4203,D4204		1SS226	D4751	AEL1170
D4205-D4209		1SS355		
D4202		RD6.8MB	OTHERS	
			CN4751 3P PH CONNECTOR	S3B-PH-SM3
OILS AND F			0o. 0o20.0	002 1 11 00
F4201,F4203-F	4205 EMI FILTER	ATF1194		
			FRONT KEY ASSY	[AWZ6656]
CAPACITORS			SWITCHES AND RELAYS	-
C4208,C4210,0	C4215,C4222,C4230	CCSRCH331J50		
C4255,C4257		CCSRCH331J50	S4801-S4806	ASG1088
C4262		CCSRCH471J50	CARACITORS	
	C4212,C4214,C4217	CCSRCH820J50	<u>CAPACITORS</u>	
C4219,C4220,0	C4224,C4227,C4229	CCSRCH820J50	C4801-C4803	CKSRYF104Z16
			DEGLOTODO	
·	C4236,C4241,C4244	CCSRCH820J50	<u>RESISTORS</u>	
C4248,C4253,0		CCSRCH820J50	Other Resistors	RS1/16S###J
C4239,C4242,0		CEAT101M10		
C4202,C4237,0	24238	CEAT470M10	<u>OTHERS</u>	
C4264		CKSRYB103K50	CN4801 6P FFC CONNECTOR	AKM1208
0.400=		01/00/05/55		
C4265		CKSRYB105K6R3		
C4260		CKSRYB472K50	FRONT KEY CONN	ASSY [AWZ665]
C4263	24005 04002 0 : : :	CKSRYB474K10	SEMICONDUCTORS	•
	C4205,C4209,C4211	CKSRYF104Z16	D4851,D4852	1SS226
C4213,C4216,0	C4218,C4221,C4225	CKSRYF104Z16	D7001,D7002	100220
C4004 C4005 (24240 C4242 C4245	CKCDVE404740	OTHERS	
, ,	C4240,C4243,C4245	CKSRYF104Z16		A IZ N 44 2000
	C4252,C4256,C4259	CKSRYF104Z16 CKSRYF104Z16	CN4851 6P FFC CONNECTOR CN4852 4P PH CONNECTOR	AKM1208 B4B-PH-SM3
	7/228 C/2/10	CKSRYF104Z16 CKSRYF105Z10	CIN4002 4F FFI CONNECTOR	りもり・トローシいい
C4261	J7220,U4248	CKSRYF105Z10 CKSRYF105Z10		
C4223,C4226,0		017C01 J 1 1/2C10	ID (D) ACOV (A14/70	CE01
			IR (P) ASSY [AWZ6	ดวชไ
C4223,C4226,0 C4266-C4270			<u>SEMICONDUCTORS</u>	
C4223,C4226,0 C4266-C4270 RESISTORS	N4045 B : 5 : 5	DADAGASA		
C4223,C4226, C4266-C4270 RESISTORS R4213-R4217,I	R4245,R4247	RAB4C181J	Q4901	2SC2712
C4223,C4226, C4266-C4270 RESISTORS R4213-R4217,I R4253-R4255	R4245,R4247	RAB4C181J	Q4901 D4901	2SC2712 1SS355
C4223,C4226, C4266-C4270 RESISTORS R4213-R4217,I R4253-R4255 R4241	R4245,R4247	RAB4C181J RAB4C680J		
C4223,C4226,C4266-C4270 RESISTORS R4213-R4217,R4253-R4255 R4241 R4250		RAB4C181J RAB4C680J RS1/16S5100D	D4901	
C4223,C4226, C4266-C4270 RESISTORS R4213-R4217,I R4253-R4255 R4241		RAB4C181J RAB4C680J		

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5 6 Mark No. Description Part No. Mark No. **Description** Part No. C4903 CKSRYB472K50 SPTERMINAL ASSY [AWZ6688] C4904 CKSRYF104Z16 **COILS AND FILTERS** ⚠ L5301,L5352 LINE FILTER ATF1206 RESISTORS All Resistors RS1/16S###J **CAPACITORS** € C5306,C5307 CCCCH101J50 **OTHERS** CCCCH221J50 4901 REMOTE RECEIVER UNIT GP1UM26RK **⚠** C5302,C5352 CKCYB332K50 CKCYF473Z50 **AUDIO AMP ASSY [AWZ6687] RESISTORS SEMICONDUCTORS** /!\ R5301,R5302,R5351,R5352 RD1/2MMF100J IC5202 CXA2021S IC5002 LA4628 **OTHERS** IC5201 NJM2193L CN5301 4P SPEAKER TERMINAL AKE1058 IC5001 PQ12RD1B 2SA1048 Q5002,Q5005 SW Power Supply Module [AXY1059] Q5009,Q5012,Q5013 2SC2458 SW Power Supply Module has no service part **COILS AND FILTERS** L5001 FERRITE CORE ATX1037 **CAPACITORS** C5203,C5227 CCCCH221J50 C5213,C5226 CEHANP220M25 C5232,C5233,C5235 CEHAT100M50 C5015,C5029,C5033,C5201,C5206 CEHAT101M25 C5242 CEHAT221M25 C5032,C5034 CEHAT2R2M50 C5044,C5050,C5051 CEHAT330M25 C5005 CEHAT331M16 C5238 CEHAT470M16 CEHAT471M16 C5002 C5013 CEHAT472M25 C5208,C5211,C5212,C5218 CEHAT4R7M50 C5222,C5223,C5234 CEHAT4R7M50 CEHATR47M50 C5045 C5014,C5204,C5217,C5220,C5228 CFTLA103J50 CFTLA103J50 C5237 C5035,C5046,C5053,C5056,C5216 CFTLA104J50 C5221,C5239 CFTLA104J50 C5214,C5230 CFTLA224J50 C5225 CFTLA333J50 CFTLA473J50 C5219.C5236 C5003,C5006,C5016,C5042,C5207 CKCYB103K50 C5210 CKCYB103K50 C5043,C5052,C5205,C5229 CQMA122J50 C5224 CQMA222J50 C5215,C5231 CQMA392J50

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RESISTORS

Other Resistors

R5001

OTHERS

R5053,R5054,R5075,R5076

J5003 6P HOUSING WIRE

J5002 8P HOUSING WIRE

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5001,5002,5004,5005 SCREW

6

RD1/2MMF2R2J

RD1/2MMF3R9J RD1/4PU###J

ADX2729

ADX2731 AEC1818

VBB30P100FNI

6. ADJUSTMENT

6.1 SERVICE FACTORY MODE



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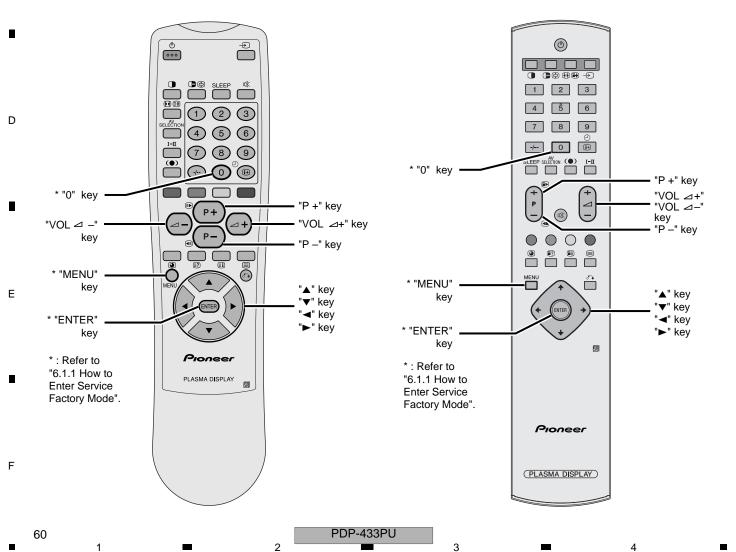
Service factory mode uses an OSD function of the Media Receiver (PDP-R03E, PDP-R03U or PDP-R03G). Perform the adjustment and setting when the Media Receiver is connected with this unit. Service Factory mode cannot be used if the Media Receiver is not connected with the Plasma Display.

■ Remote Control Unit Operation in The Service Factory Mode

Operate the service factory mode with the remote control unit (AXD1463, AXD1460 or AXD1471) supplied with the Media Receiver.

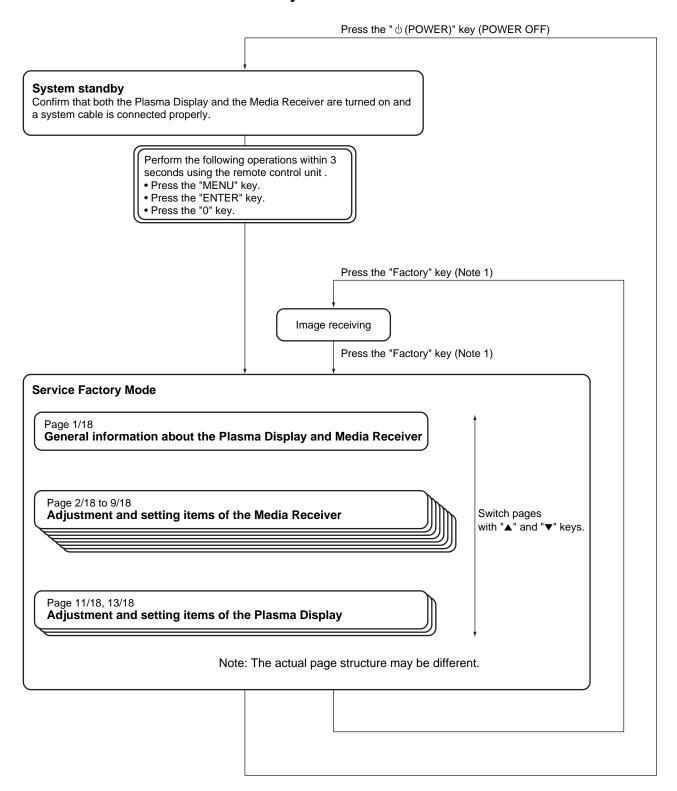
Please perform the adjustment using the following keys.

Keys on the Remote Control Unit	Functions
P + key	Each press of the key moves the adjustment-item-selection cursor up by one line.
P – key	Each press of the key moves the adjustment-item-selection cursor down by one line.
VOL ⊿+ key	Each press of the key increases the adjustment value by one.
VOL ⊿ – key	Each press of the key decreases the adjustment value by one.
▲ key	Each press of the key moves one page backward (previous page).
▼ key	Each press of the key moves one page forward (next page).
⋖ key	Each press of the key decreases the adjustment value by 10.
► key	Each press of the key increases the adjustment value by 10.



6.1.1 How to Enter the Service Factory Mode

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Note 1: If the remote control unit for adjustment with the factory (AA5F) code is used.

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6.1.2 General Information about the Plasma Display and Media Receiver

• Display example of the first page

No.	1/18	INPUT1 No SIG				
1	CENTER Version	MR MAIN E 2001/09/25 H				
2	OSD Version	MR OSD 2001/09/10 A				
3	CVIC Version	W2001/09/12 09:00 X2001/09/12 09:07 V2001/09/12 09:10				
4	TTXP Version	TTX PRG 061				
5	MONITOR Version	F6 91 10				
6	PANEL Version	-00				
7	FLASH Version	-05				
8	MONITOR Model	01				
9	Model Select Main	0				
10	Model Select AV	4				
11	Model Select MONITOR	0				
12	Sensore Temp	+28				
13	Center Acutime	16 H 41 M				
14	RESET	OFF				
15	Monitor Acutime	47 H 42 M				
16	RESET	OFF				
17	Pulse Acutime	164				
18	RESET	OFF				

No.	1/18	Item	Explanation
1	CENTER Version	Main software version information of the media receiver	
2	OSD version	OSD version information of the media receiver	
3	CVIC Version	IP/resize IC control software version information of the media receiver	
4	TTXP Version	Text microcomputer software version information of the media receiver	
5	MONITOR Version	Module microcomputer software version information of the PDP	
6	PANEL Version	Panel microcomputer version information of the PDP	Reference
7	FLASH Version	Panel flash ROM version information of the PDP	
8	MONITOR model	PDP model information	01: PIONEER 50 inches, 02: PIONEER 43 inches, 11: SHARP 50 inches, 12: SHARP 43 inches
9	Model Select Main	Media receiver model information	
10	Model Select AV	Media receiver model information	
11	Model Select MONITOR	PDP destination information	0: All SHARP destinations, Japanese and North America destinations of PIONEER, 3: European and general destinations of PIONEER
12	Sensor Temp	Temperature information of panel temperature sensor on the PDP	This is internal temperature information. This is not an environmental temperature.
13	Center Acutime	Media receiver accumulation operating time	
14	RESET	Media receiver accumulation operating time reset	Turn the display on by pressing the VOL+ key, then press the ENTER key. The accumulated time will be reset to zero.
15	Monitor Acutime	PDP accumulation operating time	
16	RESET	PDP accumulation operating time reset	Turn the display on by pressing the VOL+ key, then press the ENTER key. The accumulated time will be reset to zero.
17	Pulse Acutime	PDP accumulation pulse number	Real accumulation pulse number becomes "indicated value *10,000,000 pulse".
18	RESET	PDP accumulation pulse number reset	Turn the display on by pressing the VOL+ key, then press the ENTER key. The accumulated number will be reset to zero.

Note: The actual page structure may be different.

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• Display example of the eleventh page

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No.	11/18	I NPUT 1 No	SIG	HDCP:0	N		
1	TROUBLE RECORD1	0000	NONE				
2		350		н	57	M	
3		+25					
4							
5	TROUBLE RECORD2	1600	XDRI	VE PD			
6		300		Н	15	M	
7		+45					
8							
9	TROUBLE RECORD3	0200	ADRK	PD			
10		250		Н	19	M	
11		+65					
12							
13	TROUBLE RECORD4	1500	YDCD	C PD			
14		200		H	25	M	
15							
16							
17							
18							
19							

No.	11/18	Item	Explanation
1	TROUBLE RECORD1	The latest PD record in the PD history	Disregard the first four-digit number. Following this number, the information on PD is displayed.
2		Accumulated operating time of the panel when Trouble Record 1 occured	H:hour, M:minute
3		Temperature at the internal thermal sensor when Trouble Record 1 occured	Maximum temperature to be displayed : +94°C
4			
5	TROUBLE RECORD2	The second latest PD record in the PD history	Disregard the first four-digit number. Following this number, the information on PD is displayed.
6		Accumulated operating time of the panel when Trouble Record 2 occured	H: hour, M: minute
7		Temperature at the internal thermal sensor when Trouble Record 2 occured	Maximum temperature to be displayed : +94°C
8			
9	TROUBLE RECORD3	The third latest PD record in the PD history	Disregard the first four-digit number. Following this number, the information on PD is displayed.
10		Accumulated operating time of the panel when Trouble Record 3 occured	H: hour, M: minute
11		Temperature at the internal thermal sensor when Trouble Record 3 occured	Maximum temperature to be displayed : +94°C
12			
13	TROUBLE RECORD4	The fourth latest PD record in the PD history	Disregard the first four-digit number. Following this number, the information on PD is displayed.
14		Accumulated operating time of the panel when Trouble Record 4 occured	H: hour, M: minute
15		Temperature at the internal thermal sensor when Trouble Record 4 occured	Maximum temperature to be displayed : +94°C

NOTE: The failure point of a PD, corresponding to the number of blinks of the Red LED, is indicated in the PD records as follows:

Number of blinks	Item	Past record dislay
1	Y-DRIVE	Y-DRIVE PD
2	Y-DC/DC CONVERTER	Y-DC/DC PD
3	X-DC/DC CONVERTER	X-DC/DC PD
4	X-DRIVE	X-DRIVE PD
5	Power supply	0000 NONE *1
6	Address junction	ADR PD
7	Address resonance	ADRK PD
8	DIGITAL-DC/DC CONVERTER	DCC PD

Note: The actual page structure may be different.

NOTE1:

A PD record representing 5 blinks of the Red LED (a PD of the power-supply section) must display "0000 NONE", accumulated time and temperature together. If only "0000 NONE" is displayed, but the accumulated time and temperature are zero, it means there was no PD.

If "0000 NONE" is displayed and the internal thermal sensor temperature is 78°C or more, it represents a record of a shutdown (SD) prompted by the abnormal temperature (indicated by 4 blinks of the Green LED), and not a record of a PD of the power-supply section.

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6.1.3 Adjustment and Setting Item of the Plasma Display

• Display example of the eleventh page

No.	12/18	INPUT1 No SIG	П
1	MNTR V50 WB	02	П
2	MNTR V60 WB	01	П
3	MINTR PC WB	01	П
4	MNTR R HIGH1	255	П
5	MNTR G HIGH1	255	П
6	MNTR B HIGH1	254	П
7	MNTR R LOW1	510	П
8	MNTR G LOW1	509	П
9	MNTR B LOW1	512	П
10	MNTR R HIGH2	255	П
11	MNTR G HIGH2	255	П
12	MNTR B HIGH2	254	П
13	MNTR R LOW2	510	П
14	MNTR G LOW2	511	П
15	MNTR B LOW2	512	П
16			П
17			П
18			
			T

No.	12/18	Item	Adjustable Range	Factory Setting	Storage Place
1	MNTR V50 WB	PDP_W/B table selection at VIDEO 50Hz	1 or 2	2	PDP
2	MNTR V60 WB	PDP_W/B table selection at VIDEO 60Hz	1 or 2	1	PDP
3	MNTR PC WB	PDP_W/B table selection at PC	1 or 2	1	PDP
4	MNTR R HIGH1	RED_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
5	MNTR G HIGH1	GREEN_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
6	MNTR B HIGH1	BLUE_GAIN of PDP_W/B table 1	0 to 255	Factory adjustment value	PDP
7	MNTR R LOW1	RED_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
8	MNTR G LOW1	GREEN_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
9	MNTR B LOW1	BLUE_OFS of PDP_W/B table 1	0 to 999	Factory adjustment value	PDP
10	MNTR R HIGH2	RED_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
11	MNTR G HIGH2	GREEN_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
12	MNTR B HIGH2	BLUE_GAIN of PDP_W/B table 2	0 to 255	Factory adjustment value	PDP
13	MNTR R LOW2	RED_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
14	MNTR G LOW2	GREEN_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP
15	MNTR B LOW2	BLUE_OFS of PDP_W/B table 2	0 to 999	Factory adjustment value	PDP

Note on PDP W/B (No. 4 to 15) adjustment:

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During adjustment, the value being adjusted is valid regardless of the actual input signal. For example, if the settings for the table selections (No. 1 and 2) remain at the factory preset settings, even if a PAL signal is being input, while [MNTR R HIGH1] is adjusted, the value in W/B table 1 is adjusted even if a PAL signal is being displayed.

After adjustment, if the PDP is restarted in the normal mode, the value in W/B table 1 will be used during PAL signal input, and the value in W/B table 1 will be used during NTSC signal input.

Note: The actual page structure may be different.

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• Display example of the thirteenth page (1/2)

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o. 13/18	INPUT1 No SIG	ı
1 ABL VIDEO60 PC	118	
2 ABL VIDEO50	122	I
3 VOFS ADJ	131	I
4 VSUS ADJ	128	
5 XSUSB ADJ	08	
6 XSUSG ADJ	08	
7 YSUSB ADJ	08	
8 YSUSG ADJ	08	
9		
0		
1		
2		
3		
4		1
5		
6		
7		
8		I
		ı

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No.	13/18	13/18 Item		Factory Setting	Storage Place
1	ABL VIDEO60 PC	Electric power setting at the PC, VIDEO 60Hz	0 to 255	Factory adjustment value	PDP
2	ABL VIDEO50	Electric power setting at VIDEO 50Hz	0 to 255	Factory adjustment value	PDP
3	VOFS ADJ	VOFS voltage setting	0 to 255	Factory adjustment value	PDP
4	VSUS ADJ	VSUS voltage setting	0 to 255	Factory adjustment value	PDP
5	XSUSB ADJ	SUS_B timing setting of X drive	0 to 15	Factory adjustment value	PDP
6	XSUSG ADJ	SUS_G timing setting of X drive	0 to 15	Factory adjustment value	PDP
7	YSUSB ADJ	SUS_B timing setting of Y drive	0 to 15	Factory adjustment value	PDP
8	YSUSG ADJ	SUS_G timing setting of Y drive	0 to 15	Factory adjustment value	PDP

If you fail to correctly adjust the above items 1 to 8, the unit may be damaged. Be very careful when making adjustments.

Note on the electric-power-setting adjustment (No. 1 and 2):

During adjustment, the value being adjusted is valid regardless of the actual input signal. For example, even if a PAL signal is being input, while [ABL VIDEO60 PC] is adjusted, the value for the [ABL VIDEO60 PC] is adjusted even if a PAL signal is being displayed.

After the adjustment, if the PDP is restarted in the normal mode, the unit will operate on [ABL VIDEO50] during PAL signal input, and on [ABL VIDEO60 PC] using your adjusted values during NTSC signal input.

Note: The actual page structure may be different.

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• Display example of the thirteenth page (2/2)

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13/18 INPUT1 No SIG No. VIDEO DRIVE MODE 00 2 PC DRIVE MODE 03 3 NEGATIVE MODE OFF BRIGHT ENHANCE OFF MASK V FREQ 50 6 PATTERN MASK OFF 7 FULL MASK OFF 8 9 10 11 12 13 14 15 16 17 18

No.	13/18	Item	Adjustable Range	Factory Setting	Storage Place
1	VIDEO DRIVE MODE	DE Drive mode selection at VIDEO 0 t		0	PDP
2	PC DRIVE MODE	Drive mode selection at PC	0 to 5	3	PDP
3	NEGATIVE MODE	EGATIVE MODE Negative positive inversion mode		OFF	PDP
4	BRIGHT ENHANCE	Bright enhance	OFF/ON	OFF	None
5	MASK V FREQ Refresh rate at mask signal generation		50/60/70	-	None
6	PATTERN MASK Pattern mask signal generation		OFF/	OFF	PDP
7	FULL MASK Full mask signal generation		OFF/	OFF	PDP

Notes when using the mask signals (test signals generated inside the PDP):

- Either the pattern-mask signal or the full-mask signal can be used. Therefore, when the pattern-mask signal is to be used, set the full-mask signal to OFF, and when the full-mask signal is to be used, set the pattern-mask signal to OFF.
- As the pattern-mask and full-mask signals are both test signals generated from inside the PDP, while either of the signals is being generated, OSD signals or external video input signals cannot be checked.

Use the buttons on the main unit or the keys on the remote control unit for releasing a mask setting, changing each setting, adjustment, or checking external input signals. For 2 seconds after any operation is performed using the buttons on the main unit or the keys on the remote control unit, generation of a mask signal is stopped. During this period, it is possible to change any setting, make any adjustment, or check an external input signal.

Note: The actual page structure may be different.

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6.2 ADJUSTMENT REQUIRED WHEN THE SET IS REPAIRED OR REPLACED

■ SW POWER SUPPLY Module

When replaced

No adjustment required.

■ DIGITAL VIDEO Assy

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When repaired

No adjustment required.

• When replaced

• Remove IC1204 (24LC04(1) SN-TBB) from the former PC Board and install it to the new PC Board.

■ MR INTERFACE Assy

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• Set the slide SW referring to the table on page 22.

■Y DRIVE Assy

• When repaired

Note: If the Pulse Module fails, it is not possible to repair the Y DRIVE Assy by replacing only the Pulse Module. Replace the entire Y DRIVE Assy.

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1. VOFS/VH/IC5V voltage adjustment

When replaced

1. Panel white balance adjustment

■ X DRIVE Assy

When repaired

Note: If the Pulse Module fails, it is not possible to repair the X DRIVE Assy by replacing only the Pulse Module. Replace the entire X DRIVE Assy.

1. VRN voltage adjustment

When replaced

1. Panel white balance adjustment

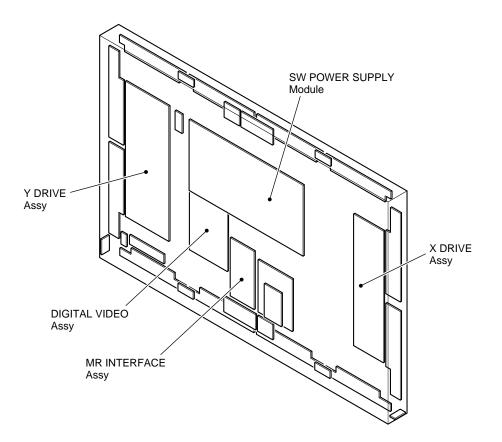


Fig. 1 Configuration of the PC Board (rear side view)

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■ VOFS/VH/IC5V Voltage Adjustment

appear. If the voltage deviates greatly from the right adjustment point, the panel will turn when lit. VH (voltage for the scan IC) Adjustment Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes 130V ± 0. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chas GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit. Signs of improper adjustment If the VH adjustment is not performed properly, blinking luminance points like dots appet if the voltage is deviated greatly from the right adjustment point, the panel will lturn whit when lit. IC5V Adjustment Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chas	Input Signal	Adjusting Point	nt Adjusting Method							
VP2702 (VPPS)	nput Signal	Adjusting Point	Method 1 1. Make a 2. Set the 3. Turn the become 4. Return Method 2 1. Read th 2. Turn the become In Com VO VO VO VO VO	note of VOFS of VR2 of	of the adjustre ADJ adjustre 701 so that to DFS ADJ adjustre 701 so that to 701 so that to correspondir 0.4 0.4984375 0.61328125 0.71171875	nent value ment value ment value he voltage ustment value e of VOFS he voltage ng value in Setting Voltage 25 25.9375 27.03125 27.96875	e of VOFS A e to center (e between K alue to that S ADJ in the e between K dicated in t Command VOF134 VOF141 VOF147	ADJ in factory 128). 12710 (VOFS which you w factory mod 12710 (VOFS he table below 2.599212598 2.71496063 2.814173228 2.913385827	e. b) and K270 cov (tolerand) Setting Voltage 45.94488 47.04724 47.99213 48.93701	in Step 1.
Signs of improper adjustment If the VOFS Voltage adjustment is not performed properly, blinking luminance points lik appear. If the voltage deviates greatly from the right adjustment point, the panel will turn when lit. VH (voltage for the scan IC) Adjustment Adjust so that the voltage between K2716 (VH) and K2720 (PSUS) becomes 130V ± 0. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chass GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit. Signs of improper adjustment If the VH adjustment is not performed properly, blinking luminance points like dots appel if the voltage is deviated greatly from the right adjustment point, the panel will lturn whit when lit. IC5V Adjustment Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0. PSUS (=GNDH) is a floating GND and its electric potential is different from that of chass GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.	Vhite 100%	(Y DRIVÈ Assy)	VO V	F032 F038 F045 F051 F058 F064 F070 F077 F083 F090 F096 F102 F109 F115 F122	0.8265625 0.925 1.0234375 1.13828125 1.23671875 1.3515625 1.45 1.5484375 1.66328125 1.76171875 1.8765625 1.975 2.0734375 2.18828125 2.28671875 2.4015625	29.0625 30 30.9375 32.03125 32.96875 34.0625 35 35.9375 37.03125 37.96875 40.9375 42.03125 42.96875 44.0625	VOF160 VOF166 VOF172 VOF179 VOF185 VOF191 VOF204 VOF211 VOF217 VOF223 VOF230 VOF236 VOF242	3.029133858 3.128346457 3.227559055 3.343307087 3.442519685 3.541732283 3.657480315 3.756692913 3.872440945 3.971653543 4.070866142 4.186614173 4.285826772 4.38503937 4.500787402	50.03937 50.98425 51.92913 53.0315 53.97638 54.92126 56.02362 56.9685 58.07087 59.01575 59.96063 61.06299 62.00787 62.95276 64.05512	
VR2703 (VH) (Y DRIVE Assy) GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit. Signs of improper adjustment If the VH adjustment is not performed properly, blinking luminance points like dots apper if the voltage is deviated greatly from the right adjustment point, the panel will lturn white when lit. IC5V Adjustment Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0 PSUS (=GNDH) is a floating GND and its electric potential is different from that of chasting GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.			Signs of ill the VOF appear. If when lit. VH (volta Adjust so	impro S Voli the vo	per adjustm tage adjustm oltage deviate the scan IC the voltage be	ent ent is not es greatly b) Adjustn tween K2	from the rig nent 716 (VH) ar	ht adjustmer	ot point, the	e panel will turn mes $130V \pm 0$.
VR2702 (IC5V) (Y DRIVE Assy) Adjust so that the voltage between K2707 (IC5V) and K2720 (PSUS) becomes 5.0V ± 0 PSUS (=GNDH) is a floating GND and its electric potential is different from that of chast GND. Be sure not to short-circuit PSUS (=GNDH) and another GND, because that may damage the unit.			Signs of improper adjustment If the VH adjustment is not performed properly, blinking luminance points like dots appear. If the voltage is deviated greatly from the right adjustment point, the panel will lturn white							
Note: Do out to macoure between enceified test points			Adjust so PSUS (=0 GND. Be	that th SNDH) sure n	e voltage be is a floating ot to short-ci	GND and	l its electric	potential is c	lifferent fro	m that of chas
		1	1							

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■ Sustain Pulse Waveform Adjustment

In	put Signal	Adjusting Point	Adjusting Method
W	I	REF_DIG mode in Factory mode XSUSB ADJ YSUSB ADJ	X-SUS-B, Y-SUS-B Adjustment Set to the indicated value with the remote control unit.

■ VRN Voltage Adjustment

Input Signal	Adjusting Point	Adjusting Method
White 100%	VR3701 (VRN) (X DRIVE Assy)	VRN (minus reset voltage adjustment) Adjust so that the voltage between K3707 (VRN) and K3702 (SUS-GND) becomes $-280 \text{V} \pm 1.0 \text{V}$.

■ Panel White Balance Adjustment

Input Signal	Adjusting Point	Adjusting Method					
		Factory m	node. tment, use the mask (l	L R-HIGH to PANEL B-LOW) in ctory mode for display. nolta color-difference meter (A-100)			
		MASK Left Side MASK Right Side					
		x 293 292					
		у 308 296					

Note: If you perform various adjustments with the RS-232C commands, be sure to execute a "DM0" command (releasing the pulse number limit) first, and after completion of the adjustment, be sure to execute a "DM3" command (pulse number limit: 64%, factory preset value).

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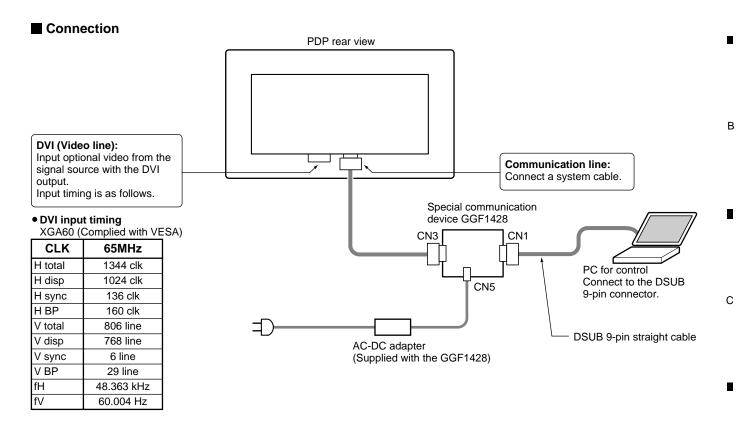
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6.4 COMMANDS

6.4.1 RS-232C Commands

The panel control items for the PDP-433PU, PE and PG system can be controlled with the RS-232C commands by connecting a PC through a special communication device GGF1428 when the Media Receiver is not connected with the PDP.

Note: The DSUB (9-pin) connector at the rear of the Media Receiver cannot be used.



Communication baud rate

Fixed to 38400 bps.

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R3 ₩ 0 RXD0_M SENCE GND **CN3** AKP1194 SP R SR_DOWN GND GND GND TXD0_M FLASH_W R2 W ∑\≹;¥ 8:≸0 8.13 0 € 13 V_JIGU10 47/16 C10 R17 M B16 ∰ 10k 11 0.1 0.1 2.2k 2.2k -W -W 9<u>1/</u>2⊅ C2^[2]+ IC2 PQ05DZ51-TLB C2- ROUT112 V- DIN1111-0.1 -∏-0.1 <u>₩</u>100K B14 W 100K 1\20 C3^{|E|}+ C8 11 0.1 D2 D2 D1FS4-TRB 47/16 C7 9.3V CN5
B3B-PH-SM3-TBB
9V O D1FS4-TRB
NC O D1FS4-TRB
GND O بار 6_ااقلام CN2 AKB1099 **CN1** AKP1201 0000 GND ф

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■ RS-232C Commands when the Media Receiver is not connected with the PDP

Command	Name	Function	Direct Validity	UP/DOWN Validity	Lower Limit	
AB0	ABL REFERENCE MODE	Setting the ABL to reference value				
AB1	ABL OFFSET MODE 1	Setting the ABL to offset value 1				
AB2	ABL OFFSET MODE 2	Setting the ABL to offset value 2				
AB3	ABL OFFSET MODE 3	Setting the ABL to offset value 3				
ABL	ABL ADJUST	Adjusting the upper limit of the power	0	0	000	255
AMN	AUDIO MUTE OFF	Mute off request of speaker volume				
AMY	AUDIO MUTE ON	Mute request of speaker volume				
DRF	DRIVE OFF	Drive OFF				
DRN	DRIVE ON	Drive ON				
DW0	DOWN 0	Lowering the adjustment value by 10				
DWF	DOWN FULL	Minimizing the adjustment value				
DWn	DOWN n	Lowering the adjustment value by n				
EWN	EEPROM WRITE NO	Completing the plug & play EEPROM writing mode				
EWY	EEPROM WRITE YES	Starting the plug & play EEPROM writing mode				
F50	FREE RUN 50VIDEO	Displaying the mask screen with 50Hz (video) sequence				
F60	FREE RUN 60VIDEO	Displaying the mask screen with 60Hz (video) sequence				
F61	FREE RUN 60PC	Displaying the mask screen with 60Hz (PC) sequence				
F70	FREE RUN 70PC	Displaying the mask screen with 70Hz (PC) sequence				
GAJ*	GET ADJUST	Acquiring the various adjustment value of the display				
GPW *	GET PANEL W/B	Acquiring the W/B adjustment value of the panel				
GS1 *	GET STATUS 1	Acquiring the version information				
HMS	HOUR METER SET	Setting hour meter to optional time				
M00	MASK 00	Mask mode OFF				
						_
M01	MASK 01	Pattern 1 (Lamps)				-
M02	MASK 02	Pattern 2 (Color bars)				
M03	MASK 03	Pattern 3 (Slanting lines)				
M04	MASK 04	Pattern 4 (W/B measurement)				
M05	MASK 05	Pattern 5 (W/B adjustment)				-
M06	MASK 06	Pattern 6 (W/B peak measurement)				
M07	MASK 07	Pattern 7 (Peak measurement)				
M08	MASK 08	Pattern 8 (Reservation)				
M09	MASK 09	Pattern 9 (SCAN IC protection test)				
M10	MASK 10	Pattern 10 (SCAN IC protection test)				
M11	MASK 11	Pattern 11 (reservation)				
M12	MASK 12	Pattern 12 (reservation)				
M13	MASK 13	Pattern 13 (reservation)				
M14	MASK 14	Pattern 14 (reservation)				
M51	MASK 51	Full mask (white)				
M52	MASK 52	Full mask (cyan 274)				
M53	MASK 53	Full mask (magenta 1023)				
M54	MASK 54	Full mask (flesh color)				
M55	MASK 55	Full mask (cyan 1023)				
M56	MASK 56	Full mask (light purple)				
M57	MASK 57	Full mask (sky blue)				
M58	MASK 58	Full mask (red)				
M59	MASK 59	Full mask (green)				
M60	MASK 60	Full mask (blue)				
M61	MASK 61	Full mask (black)				
M62	MASK 62	Full mask (red 779)				
M63	MASK 63	Full mask (cyan 218)				
M64	MASK 64	Full mask (cyan 444)				
M65	MASK 65	Full mask (flesh color 43)				
M66						
M67	MASK 66	Full mask (red 620)				
	MASK 67	Full mask (magenta 98)	1	1		

^{*} See "6. 4. 2 GET Commands".

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■ RS-232C Commands when the Media Receiver is not connected with the PDP

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Comman	Name	Function	Direct Validity	UP/DOW N Validity		
M69	MASK 69	Full mask (sky blue 2_43)				
M70	MASK 70	Full mask (light purple 43)				
M71	MASK 71	Full mask (yellow)				
M72	MASK 72	Full mask (blue 916)				
M73	MASK 73	Full mask (reservation)				
M74	MASK 74	Full mask (reservation)				
MMN	MIRROR MODE NO	Mirror mode OFF (normal display)				
MMX	MIRROR MODE X	Right and left reversing display				
MMY	MIRROR MODE Y	Top and bottom reversing display				
MMZ	MIRROR MODE XY	Top and bottom, right and left reversing display				
MTN	PANEL MUTE NO	Release panel mute				
MTY	PANEL MUTE YES	Panel mute				
NMN	NEGATIVE MODE NO	Negative-positive inversion mode OFF				
NMY	NEGATIVE MODE YES	Negative-positive inversion mode ON				
PBH	PANEL BLUE HIGH	BLUE HIGH LIGHT adjustment	0	0	000	255
PBL	PANEL BLUE LOW	BLUE LOW LIGHT adjustment	0	0	000	999
PGH	PANEL GREEN HIGH	GREEN HIGH LIGHT adjustment	0	0	000	255
PGL	PANEL GREEN LOW	GREEN LOW LIGHT adjustment	0	0	000	999
PHN	PANEL HIGHT-LIGHT NO	Releasing the W/B highlight maximum mode of the panel				
PHY	PANEL HIGHT-LIGHT YES	Setting the W/B highlight of the panel to maximum				
PLN	BRIGHT ENHANCE NO	Center brightness correction OFF				
PLY	BRIGHT ENHANCE YES	Center brightness correction ON				
PMS	PULSE METER SET	Optional setting of the pulse meter				
POF	POWER OFF	Standby request				
PON	POWER ON	Power ON request				
PRH	PANEL RED HIGH	RED HIGH LIGHT adjustment	0	0	000	255
PRL	PANEL RED LOW	RED LOW LIGHT adjustment	0	0	000	999
PCN	PC MODE NO	At the 60Hz input: VIDEO sequence selection			000	
PCY	PC MODE YES	At the 60Hz input: PC sequence selection				
PT0	PANEL COLOR TEMP 0	Set each temperature mode to 0 (REF)				
PT1	PANEL COLOR TEMP 1	Set each temperature mode to 1 (OFS1)				
PT2	PANEL COLOR TEMP 2	Set each temperature mode to 2 (OFS2)				
UP0	UP 0	Increasing the adjustment value by 10				
UPF	UP FULL	Maximizing the adjustment value				
UPn	UP n	Increasing the adjustment value by n				
VOF	VOFFSET ADJUST	Vofs adjustment	0	0	000	255
VOL	VOLUME	Volume	0	0	000	060
VSU	VSUS ADJUST	Vsus adjustment	0	0	000	255
XSB	XSUS B	X-SUS-B pulse adjustment	0	0	000	015
XSG	XSUS G	X-SUS-G pulse adjustment	0	0	000	015
YSB	YSUS B	Y-SUS-B pulse adjustment	0	0	000	015
100	1000 B	V CUO C L L' L		 	000	015

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Y-SUS-G pulse adjustment

6.4.2 GET Commands

Command Description

Command		Function
GAJ	Outputting data	for electronic-control-adjustment values and drive-system-adjustment values
GPW	Outputting data	relating to the white-balance adjustment for the panel
GS1	Outputting data	such as version information, and data from the hour meter and pulse meter

GAJ: Outputting data for electronic-control-adjustment values and drive-system-adjustment values • Output the data according to the order and size of the table below.

Order	Data Con	tents	Size	Remarks
1	Setting mode of electric power u	upper limit value	3 byte	AB* (*: 0 to 3)
2	Electric newer upper limit value	(Reference data)	3 byte	
3	Electric power upper limit value (ABL)	(Offset data)	3 byte	(Note 1)
4	Vsus adjustment value	(Reference data)	3 byte	
5	Vofs adjustment value	(Reference data)	3 byte	
6	V-SUS-B adjustment value	(Reference data)	3 byte	
7	V-SUS-G adjustment value	(Reference data)	3 byte	
8	Y-SUS-B adjustment value	(Reference data)	3 byte	
9	Y-SUS-G adjustment value	(Reference data)	3 byte	

(Note 1): If data are output when Reference mode is selected, the same data as the reference data are output as the offset data.

(Note 2): A checksum of 2 bytes is added at the end, but this can be ignored.

GPW: Outputting data relating to the white-balance adjustment for the panel • Output the data according to the order and size of the table below.

Order	Data Con	tents	Size	Remarks
1	Panel color temperature mode		3 byte	PT* (*: 0 to 3)
2	Cain of W/P adjustment value	(Reference data)	3 byte	
3	Gain of W/B adjustment value Red	(Offset data)	3 byte	(Note 1)
4	Cain of W/D adjustment value	(Reference data)	3 byte	
5	Gain of W/B adjustment value Green	(Offset data)	3 byte	(Note 1)
6	Cain of W/D adjustment value	(Reference data)	3 byte	
7	Gain of W/B adjustment value Blue	(Offset data)	3 byte	(Note 1)
8	Offset of W/P adjustment value	(Reference data)	3 byte	
9	Offset of W/B adjustment value Red	(Offset data)	3 byte	(Note 1)
10	Offset of W/P adjustment value	(Reference data)	3 byte	
11	Offset of W/B adjustment value Green	(Offset data)	3 byte	(Note 1)
12	Offset of W/B adjustment value	(Reference data)	3 byte	
13	Blue	(Offset data)	3 byte	(Note 1)

(Note 1): If data are output when Reference mode is selected, the same data as the reference data are output as the offset data. (Note 2): A checksum of 2 bytes is added at the end, but this can be ignored.

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GS1: Outputting data such as version information, and data from the hour meter and pulse meter • Output the data according to the order and size of the table below.

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Order	Data Contents	Size	Remarks
1	Display information	3 byte	See below
2	Module microcomputer model number	4 byte	5691 or F691
3	Module microcomputer version	3 byte	
4	Panel microcomputer version	3 byte	
5	Panel /FLASH ROM version	3 byte	
6	Hour meter (hour)	5 byte	Unit: H (hour)
7	Pulse meter	7 byte	Unit: 0.01G (10,000,000)
8	Main microcomputer model number	4 byte	5692 or F692
9	Main microcomputer version	3 byte	
10	Wide microcomputer version	3 byte	
11	Wide /FLASH ROM version	3 byte	

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Note: A checksum of 2 bytes is added at the end, but this can be ignored.

■ Display Information

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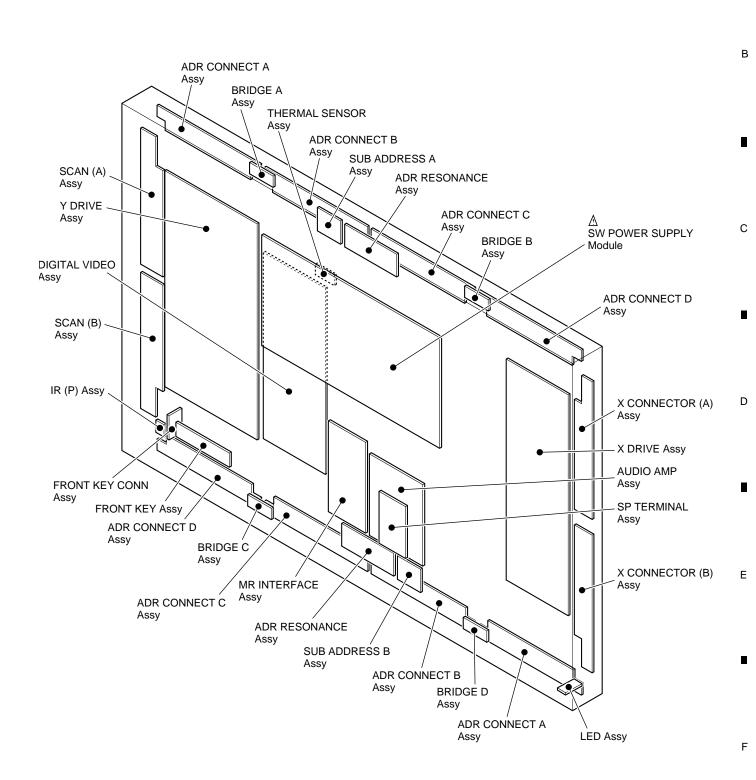
Data	Model
MX5	PDP-503MX (initial value)
MX4	PDP-433MX
MD5	Module 50 inches
MD4	Module 43 inches
HD5	PDP-503HD
HD4	PDP-433HD

7. GENERAL INFORMATION

7.1 DIAGNOSIS

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7.1.1 CONFIGRATION OF THE PC BOARD



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This unit has self-diagnosis functions against abnormalities in the internal circuits and other operational abnormalities, and if any abnormality is detected, the STANDBY/ON indicator (LED) blinks to alert you of it.

How the indicator blinks and possible failure points and power-down points are explained below:

Shutdown

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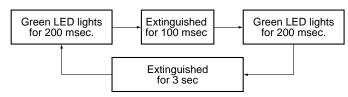
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• Operations: When a microcomputer has detected an abnormality, it turns the power supply to OFF.

• LED display: Blinking in green

Example: How the LED blinks when DIGITAL-IIC communications fail



Number of blinking	Reason
1	Panel Microcomputer failure
2	DIGITAL-IIC communication failure
4	Temperature abnormality

How to release shutdown

Press the power key on the remote control to switch the unit back on. (It is not necessary to press the MAIN POWER button to turn off the unit.)

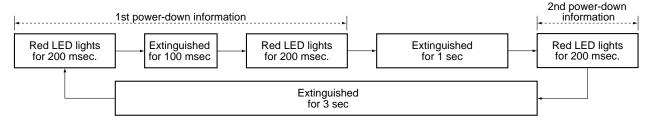
Power-down

• Operations : In an emergency, the protection circuits are activated, and the power is turned off.

LED display: Blinking red

Note: If more than two protection circuits are activated at almost the same time, the LED indicates this by its blinking-pattern.

Example: How the LED blinks for the first power-down (Y-DC/DC CONVERTER) and the second power-down (Y DRIVE)



Number of blinks	Failure Point
1	Y-DRIVE
2	Y-DC/DC CONVERTER
3	X-DC/DC CONVERTER
4	X-DRIVE
5	Power supply
6	Address junction
7	Address resonance
8	DIGITAL-DC/DC CONVERTER

How to release power-down

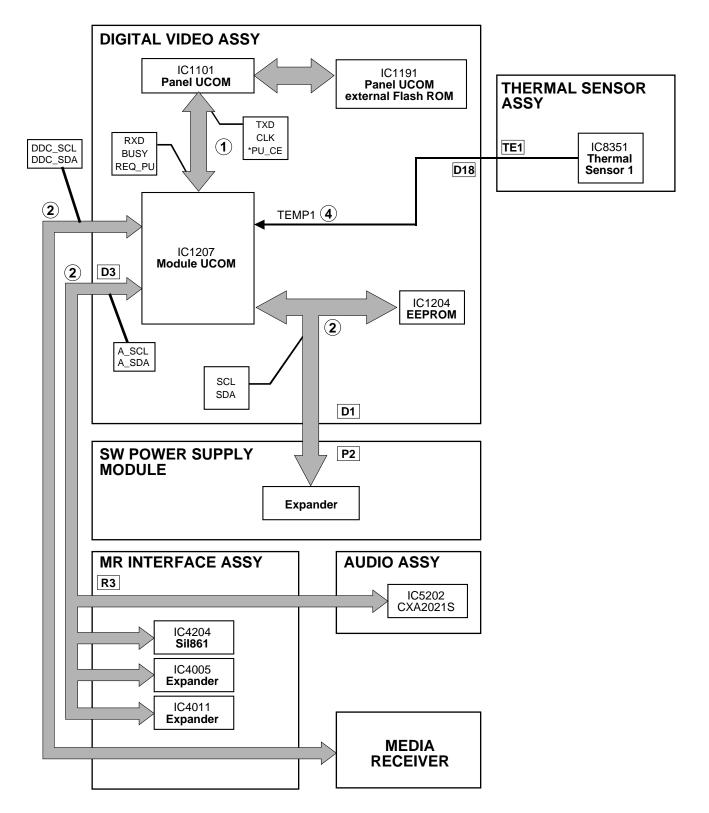
Set the MAIN POWER button to OFF, and wait for about 30 seconds until the LED for PD (power-down) in the power-supply module is extinguished. Wait another 5 seconds, then recover the unit by setting the MAIN POWER button to ON.

Note: After power-down is released, the unit restarts and goes to Standby mode.

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• Block Diagram of the Shutdown Signal System ("STANDBY/ON" LED: Blinking in green)

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Note: The figures ① - ④ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

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Shutdown diagnosis

1) Panel microcomputer failure

Condition: When a module microcomputer failed in communication

with a panel microcomputer

: An OSD is displayed for 30 seconds after the failure is Results

detected; then the power is shut down.

Possible causes

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Open/short-circuit of the communication lines in the assembly

Screen display

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② DIGITAL-IIC communication failure

Condition: When a module microcomputer failed in communication with

an external EEPROM or EXPANDER

Results : An OSD is displayed for 30 seconds after the failure is

detected; then the power is shut down.

Note: A DIGITAL-IIC communication failure may occur in Standby mode.

Possible causes

- · Open / Short-circuit of communication line in the DIGITAL VIDEO, MR INTERFACE and AUDIO Assys
- · Breaking of wire between the following points: DIGITAL VIDEO Assy (D1) ↔ SW POWER SUPPLY Module (P2) DIGITAL VIDEO Assy (D3) ↔ MR INTERFACE Assy (R3) MR INTERFACE Assy (R23) ↔ AUDIO Assy (A24) System Cable

3 Abnormally high temperature

Condition: when the internal temperature of the unit becomes abnormally high Results : An OSD is displayed for 30 seconds after the failure is detected; then the power is shut down.

Note: If the internal temperature of the unit becomes lower while the OSD is displayed, the unit returns to normal operation.

Possible causes if this abnormality occurs in an environment in which the temperature is not so high

Disconnection between the DIGITAL VIDEO Assy (D18) and temperature sensor 1 (TE1)

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Reference

Shutdown temperature of each temperature sensor Sensor Temp ≥ 78

MR MAIN E 2001/09/25 H MR OSD 2001/09/10 A CENTER Version OSD Version CVIC Version TTXP Version MONITOR Version PANEL Version FLASH Version - 00 - 05 MONITOR Model Model Select Main Model Select AV Model Select MONITOR Center Acutin OFF OFF Pulse Acutime OFF

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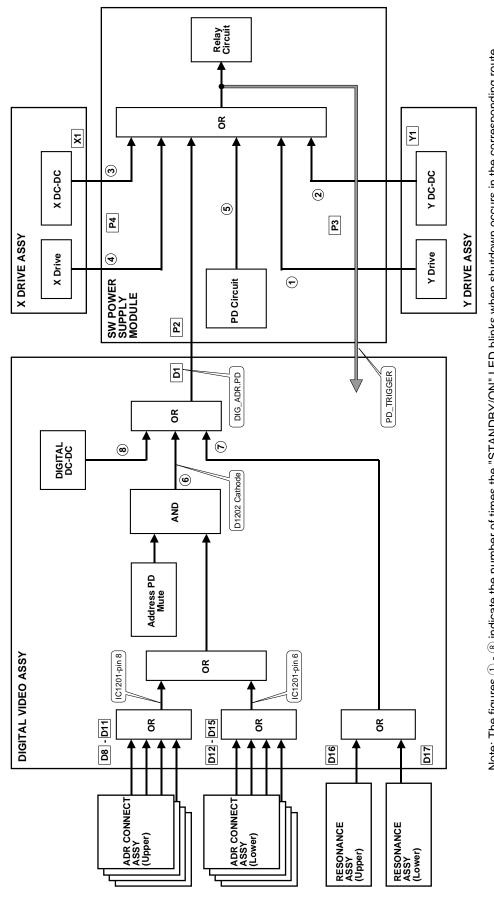
• Block Diagram of the Power Down Signal System ("STANDBY/ON" LED: Blinking in red)

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Note: The figures ① - ⑧ indicate the number of times the "STANDBY/ON" LED blinks when shutdown occurs in the corresponding route.

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• Types and functions of the various protection circuits (P.D. circuits)

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Assy Name	Red "STAND- BY/ON" LED Number of Blinks	Type of P.D. Circuits	Function	Remarks
	1	VCP OCP	P.D. by VCP overcurrent	
		VOFS OVP	P.D. by VOFS overvoltage	
Y DRIVE Assy		VOFS UVP	P.D. by VOFS undervoltage (= overcurrent)	
I DRIVE ASSY	2	VH OVP	P.D. by VH overvoltage	
		VH UVP	P.D. by VH undervoltage (= overcurrent)	
		IC5V UVP	P.D. by IC5V undervoltage (= overcurrent)	
	3	VRN OVP	P.D. by VRN overvoltage	
X DRIVE Assy	3	VRN UVP	P.D. by VRN undervoltage (= overcurrent)	
A DRIVE ASSY	4	VCP OCP	P.D. by VCP overcurrent	
		VSUS OVP	P.D. by VSUS overvoltage	
		VSUS UVP	P.D. by VSUS undervoltage (= overcurrent)	
		VADR OVP	P.D. by VADR overvoltage	
		VADR UVP	P.D. by VADR undervoltage (= overcurrent)	
		15V OVP	P.D. by 15V overvoltage	
		15V UVP	P.D. by 15V undervoltage (= overcurrent)	
		12V UVP	P.D. by 12V undervoltage (= overcurrent)	
SW POWER SUPPLY	5	6.5V OVP	P.D. by 6.5V overvoltage	
Module	5	6.5V UVP	P.D. by 6.5V undervoltage (= overcurrent)	
		13.5V UVP	P.D. by 13.5V undervoltage (= overcurrent)	
		-9V UVP	P.D. by -9V undervoltage (= overcurrent)	
		+B OVP	P.D. by +B overvoltage	
		+B OCP	P.D. by +B overcurrent	
		AC200V P.D.	P.D. by AC200V applied	Note 1
			PFC module overheat protection	
			VSUS arc resistance overheat protection	
ADR CONNECT Assy	6	ADR.PD	P.D. by disconnection of connectors	
RESONANCE Assy	7	ADR.K.PD	P.D. by ICP open and TCP defective	
		5.0V OVP	P.D. by 5V overvoltage	
		5.0V UVP	P.D. by 5V undervoltage (= overcurrent)	
DIGITAL VIDEO Assv	8	3.3V OVP	P.D. by 3.3V overvoltage	
DIGITAL VIDEO ASSY	0	3.3V UVP	P.D. by 3.3V undervoltage (= overcurrent)	
		2.5V OVP	P.D. by 2.5V overvoltage	
		2.5V UVP	P.D. by 2.5V undervoltage (= overcurrent)	

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OVP: Over Voltage Protect
UVP: Under Voltage Protect
OCP: Over Current Protect

PD: Power Down

Note 1: The AC200V P.D. circuit is not mounted in the PDP-503PE and PDP-503PU models.

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P.D. Point in Operation	t in Error Point	Possible Part in failure	Circuit State	P.D. Circuit in Operation	Diagnosis Condition
Y DRIVE	Y DRIVE Assy	IC2206, IC2214 (Pulse module), IC2203, IC2204, IC2212, IC2213, IC2213, IC2217, R2209	K2211 Lo	VCP OCP	
	VOFS D/D CONV. BLOCK (Y DRIVE Assy)	IC2702, IC2709, IC2715	K2712 Lo	VOFS OVP	
	VOES PINED (NOC) DIVERSIONE ASSETS	IC2701, IC2702, IC2709, IC2715	10000		Drive section (control signals, output elements etc.) in normal operation
	VOTS E/U COINV. BEOCK (1 DRIVE ASSY)	Q2211, Q2212, R2277, IC2208, IC2210	K2/09 L0	VOTS 0V	VOFS D/D CONV. BLOCK in normal operation
	VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2712, IC2716	K2719 Lo	VHOVP	
Y DC DC	VH D/D CONV. BLOCK (Y DRIVE Assy)	IC2711, IC2712, IC2716			Drive section (control signals, output elements etc.) in normal operation
	SCAN (A), (B) Assy	SCAN IC	K2718 Lo	VH UVP	VH D/D CONV. BLOCK in normal operation
	IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717			SCAN Assy in normal operation
	SCAN (A), (B) Assy	SCAN IC	- 1 07207		IC5V D/D CONV. BLOCK in normal operation
	IC5V D/D CONV. BLOCK (Y DRIVE Assy)	IC2704, IC2706, IC2717	NZ/ 13 L0	100 V CO	SCAN Assy in normal operation
	VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3702, IC3712	K3708 Lo	VRN OVP	
X DC DC	VRN D/D CONV. BLOCK (X DRIVE Assy)	IC3701, IC3702, IC3712			Drive section (control signals, output elements etc.) in normal operation
	X DRIVE Assy	Q3122	K3705 Lo	VRN UVP	VRN D/D CONV. BLOCK in normal operation
X DRIVE	X DRIVE Assy	IC3200, IC3201 (pulse module), IC3103, IC3104, IC3106, IC3107, IC3110, IC3113, R3109	K3103 Lo	VCP OCP	
	X DRIVE Assy	IC3200, IC3201 (Pulse module)			In a case where PD does not occur if the P4 connector is disconnected
	Y DRIVE Assy	IC2206, IC2214 (Pulse module)			In a case where PD does not occur if the P3 connector is disconnected
	MX AUDIO Assy	IC8601 (Audio IC)			In a case where PD does not occur if the P6 connector is disconnected
PS	ADDRESS CONNECT A - D Assy, RESONANCE Assy, D/D CONV. BLOCK (DIGITAL VIDEO Assy)				In a case where PD does not occur if Pin 5 of the P2 connector is disconnected
	SW POWER SUPPLY Module	SW POWER SUPPLY Module			In a case where the voltage is not output even if the P4, P3, P6 connectors and Pin 5 of the P2 connectors are disconnected
ADR	ADDRESS CONNECT A~D Assy	Disconnection of the D8 - D15 connectors		ADR. PD	
ADR K	RESONANCE Assy	TCP damage of IC6704 (ICP), disconnection of the D16 and D17 connectors, panel microcomputer is defective, external Flash ROM of the panel microcomputer is defective.		ADR. K. PD	Note on PS PD When the Red "STANDBY/ON" LED blinks When the Stower supply PD) When the internal protection circuit of the SW POWER SUPPLY Module worked
	D/D CONV. BLOCK (DIGITAL VIDEO Assy)		K1901 Lo	5.0V OVP	 2 When a microcomputer was not able to identify the PD point
			K1902 Lo	5.0V UVP	
IVE	D/D CONV. BLOCK (DIGITAL VIDEO Assy)	IC1901	K1903 Lo	3.3V OVP	 Care must be taken, because five blinks of the red LED does not always mean that the
			K1904 Lo	3.3V UVP	protection circuit of the SW POWER SUPPLY Module is activated
	D/D CONV. BLOCK (DIGITAL VIDEO Assv)	IC1901	K1905 Lo	2.5V OVP	Module is activated.

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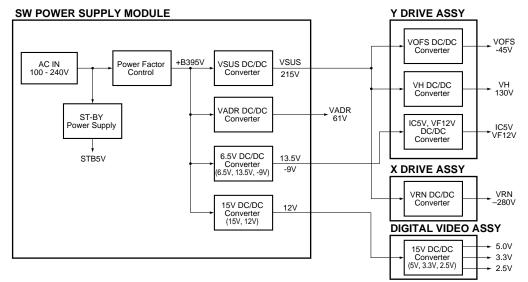
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Supplementary information

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1. Power on/off switch for the large-signal system (SW102)

Function: Only the power for the small-signal system (15V, 12V, 6.5V, 13.5V, and -9V) is on, and the power for the large-signal system (VSUS, VADR) is

Usage: Use when only an operational check for the smallsignal system is required.

Supplementary information:

When this switch is to be used, the wires of pin 5 (DIG, ADR, and PD) of the P2 connector of the power-supply module should be disconnected to prevent the PD circuit from operating. To turn the power of the large-signal system off without using this switch, operation from an external PC through RS-232C commands "DRF" is basically required. In this case, the above procedure is not required, as the PD circuit is muted by software.

How to turn on the power with a command sent via RS-232C communication when the large signal system's power is off

- (1) Check that the unit is in Standby mode.
- ② Transmit the RS-232C command "DRF."
- 3 Turn on the power using the remote control unit, side keys, or the command "PON.'

Note: Once the power is turned off, the setting of the large signal system power returns to ON.

> If you wish to turn on the power when the large signal system's power is off, transmit the DRF command each time.

2. 200V AC power-down switch (SW101)

Function: While 200V AC voltage is applied, operation of the PD circuit is turned on and off (ON when the switch is set to 100V AC, and OFF when the switch is set to 200V AC).

Setting: For the PU model only, the switch is set to 100V, and for other models, it is set to 200V.

3. Temperature compensation of the VSUS voltage for the drive system

Function: Control the power supply voltage mentioned above according to temperature. (Temperature compensation works so that the voltage is lowered on the lowertemperature side, and is raised on the highertemperature side.)

Purpose: To improve the yield by compensating the temperature characteristics of the panel.

Supplementary information:

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For this model, temperature compensation is performed only for the VSUS voltage, and not for the VOFS voltage, and it is controlled by software.

4. When a fuse blows

- If a fuse blows, never turn the power on again only after replacing the fuse. (In most cases, the fuse itself did not have any problem. So as long as factors of overcurrent have not been removed, chances of destruction increase every time the power is turned on. In the worst case, about a dozen parts may be destroyed.)
- Generally, the whole power-supply module assembly must be replaced.

5. Voltage adjustment of the panel drive

As this model employs the electronic VR system for the VSUS and VOFS voltages, and as the voltage-adjustment data are stored in the DIGITAL assembly, voltage adjustment of the panel drive is not necessary when the power-supply modules are changed. (For VADR, VH, and VRN, adjustments with semifixed VR controls are necessary.)

For this model, as the power-supply block has been developed and designed by an outside vendor, at the point you know which module is a cause of failure (through diagnosis described elsewhere in this manual), change the corresponding modules, and do not diagnose or repair the module.

Similarly, the switches and the semifixed VRs inside the powersupply module must not be adjusted without a special reason.

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About detect switch

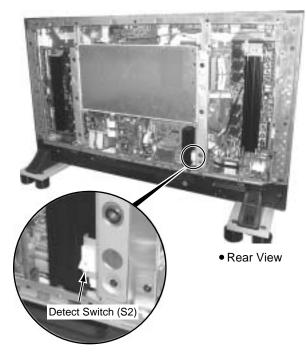
This unit adopts the "Rear Case opened! detection" system. Please work in service as follows by all means.

• Outline and notes

The PDP-433HD-series models use digital signals for video transmission from the Media Receiver to the Plasma Display. To address the need for copyright protection, content protection by HDCP is adopted.

Furthermore, the detection switch is equipped so that the power can never be turned on again if the rear case of the Plasma Display is opened without a specified procedure.

The detection switch does not work when the power is off or when the unit is switched to Standby mode from the remote control unit. Before servicing the Plasma Display, immobilize this switch with an electrical tape or equivalent, then turn on the power. Be sure to remove the tape after the repair is finished.

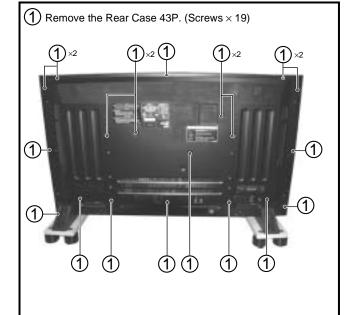


• Should the detection switch be activated

If the detection switch is activated, the red LED continuously blinks at intervals of 300 ms. After closing the rear case or immobilizing the detection switch with an electrical tape or equivalent, press the MENU, ENTER, then POWER keys of the remote control unit in that order. The unit restarts and enters Service Factory mode. Turn off the power using the remote control unit.

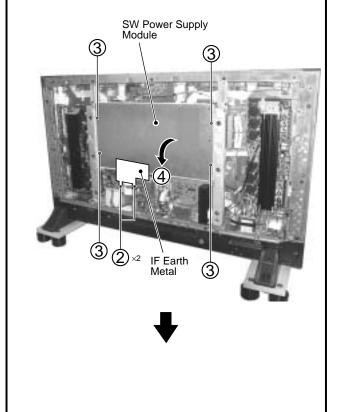
Then, the unit can be operated normally.

SW Power Supply Module





- \bigcirc Remove the IF Earth Metal.(Screws \times 2)
- (3) Remove the four screws.
- (4) Remove the SW Power Supply Module.



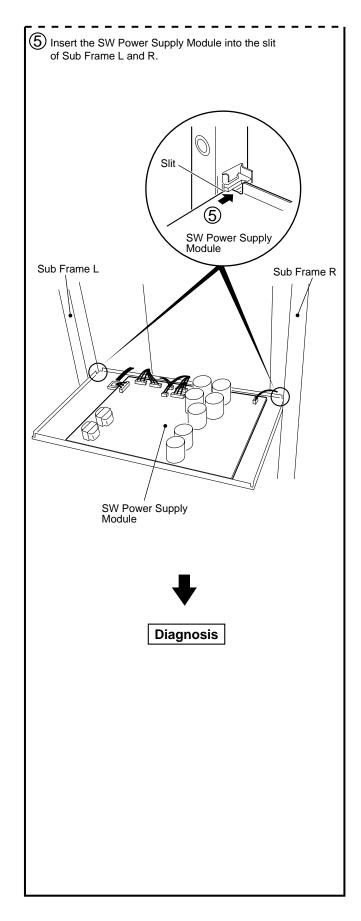
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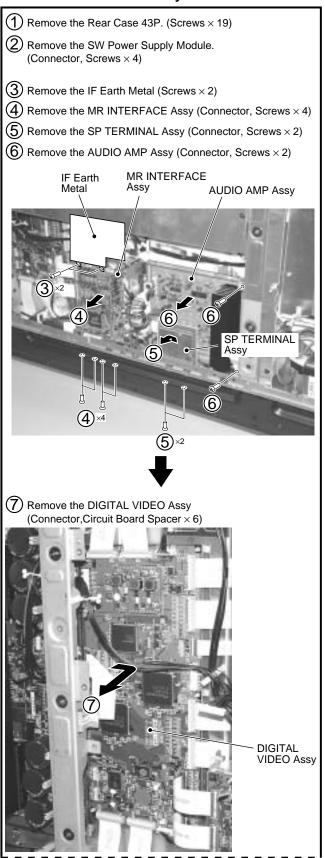
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MR INTERFACE, AUDIO AMP SP TERMINAL and DIGITAL VIDEO Assys



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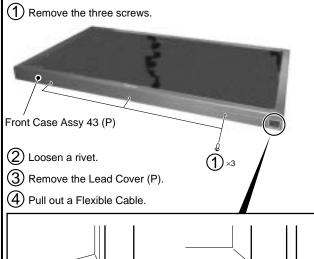
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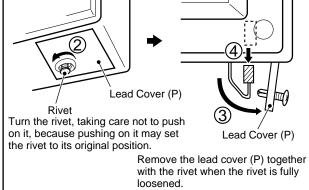
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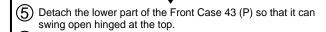
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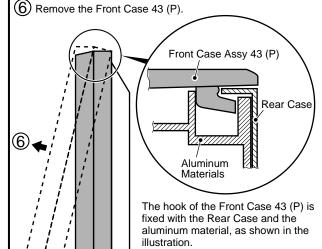
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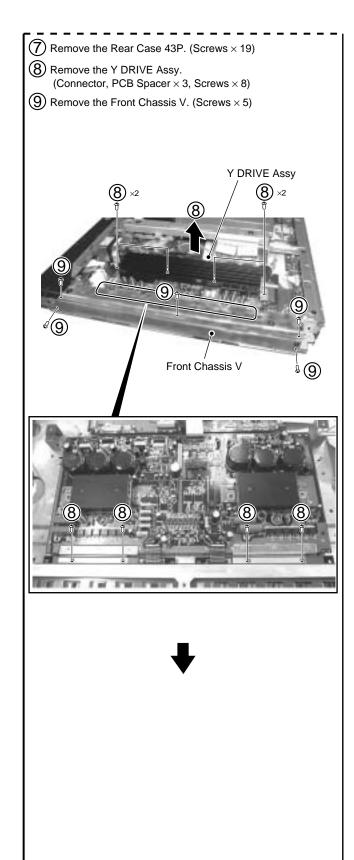
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X DRIVE Assy

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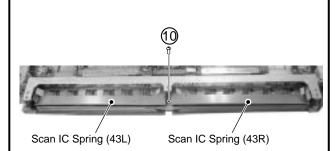
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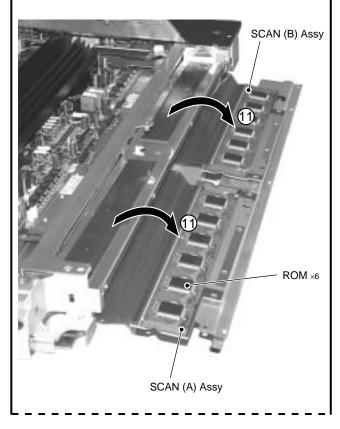
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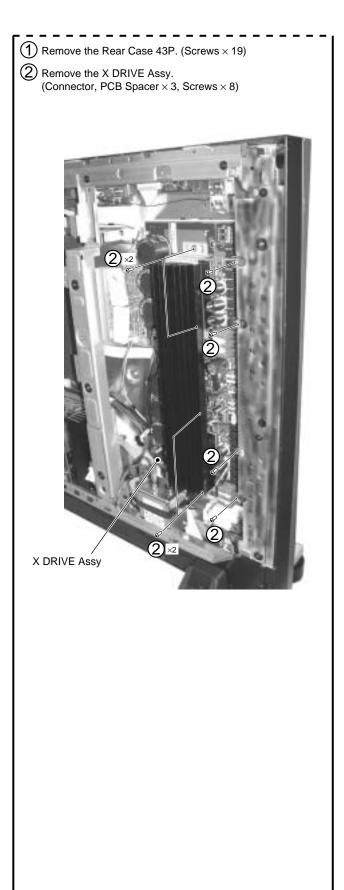
Remove the Scan IC Spring (43L) and (43R). (Screws × 1)





- Reverse the SCAN (A) and SCAN (B) Assemblies.
- (12) Exchange the ROM if necessary.





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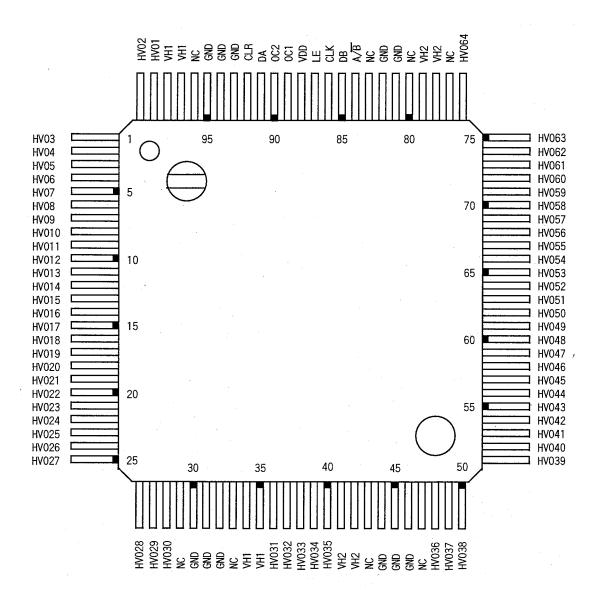
7.2 IC INFORMATION

- The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.
- List of IC

SN755864APZP, HD64F2328VF, PE1013B, M30624FGAFP, PD6358A, PST9246N, FS781BZB, STK795-470

■ SN755864APZP (SCAN A ASSY : IC6201 - IC6206, SCAN B ASSY : IC6001 - IC6006) Scan IC

Pin Assignment (Top view)



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OC2 LE VH1 CLK HVO1 ~32 Selector DA GND CLR ζ 64bit Shift Register 64bit Latch VH2 A/B Selector HVO33 **5~**64 DB GND VDD GND

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Pin Function

Name	Pin No.	I/O	Num.	Function
CLK	86	I	1	Shift clock (start edge partial response)
DA	91	I/O	1	The serial data input of shifting register
DB	85	I/O	1	The serial data output of shifting register
LE	40	I	1	It output data done a latch of by "H" level
CLR	92	I	1	It do data of shift register with "H" by "L" level
A/B	84	I	1	A shift directional control signal of shift register
OC1	89	I	1	An output control terminal of HVO
OC2	90	I	1	An output control terminal of HVO
HVO	99, 100, 1-28 36-40, 48-76	0	64	High voltage drive output (HVO1 - HVO64)
VDD	88	-	1	Logic power supply
GND	30-32, 44-46 81-82, 93, 94-95	-	11	Standard potential. This is common to HVO1 - HVO64.
VH1	34, 35, 97, 98	_	4	The high potential circuit power supply which is common to HVO1 - HVO32
VH2	41, 42, 78, 79	_	4	The high potential circuit power supply which is common to HVO33 - HVO64
NC	29, 33, 43, 47 77, 80, 83, 96	-	8	It is the insulation electrically

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■ HD64F2328VF (DIGITAL VIDEO ASSY : IC1101) Panel Microcomputer

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● Pin Function (1/3)

No.	Pin Name	Function
1	CS_23	PE5064 (IC1703) control output
2	NC	NC Terminal
3	VSS	GND
4	VSS	GND
5	VCC	3.3V power supply
6	UA0	Address bus
7	UA1	Address bus
8	UA2	Address bus
9	UA3	Address bus
10	VSS	GND
11	UA4	Address bus
12	UA5	Address bus
13	UA6	Address bus
14	UA7	Address bus
15	UA8	Address bus
16	UA9	Address bus
17	UA10	Address bus
18	UA11	Address bus
19	VSS	GND
20	UA12	Address bus
21	UA13	Address bus
22	UA14	Address bus
23	UA15	Address bus
24	UA16	Address bus
25	UA17	Address bus
26	UA18	Address bus
27	UA19	Address bus
28	VSS	GND
29	UA20	Address bus
30	PA5	NC terminal
31	PA6	NC terminal
32	PA7	NC terminal
33	CE_PN	Enables / for panel microcomputer
34	CE_PN	Enables / for panel microcomputer
35	VSS	GND
36	VSS	GND
37	APLP	The APL value acquisition trigger signal input
38	VD_31	The V signal input from IC1401 (PD6358)
39	VCC	3.3V power supply
40	UD0	Data bus
41	UD1	Data bus
42	UD2	Data bus
43	UD3	Data bus
44	VSS	GND
45	UD4	Data bus
46	UD5	Data bus
47	UD6	Data bus
48	UD7	Data bus
49	UD8	Data bus Data bus
73	000	Data bus Data bus

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● Pin Function (2/3)

No.	Pin Name	Function
51	UD10	Data bus
52	UD11	Data bus
53	VSS	GND
54	UD12	Data bus
55	UD13	Data bus
56	UD14	Data bus
57	UD15	Data bus
58	VCC	3.3V power supply
59	D_TXD	Communication with IC1207 (module microcomputer)
60	EXT_TXD	Communication with the outside (program notes)
61	D_RXD	Communication with IC1207 (module microcomputer)
62	EXT_RXD	Communication with the outside (program notes)
63	D_CLK	Communication with IC1207 (module microcomputer)
64	P60	NC terminal
65	VSS	GND
66	CS_FLASH	A flash memory control terminal
67	VSS	GND
68	VSS	GND
69	P61	NC terminal
70	UDREQ	IC1703 (PE5064) control terminal
71	P63	NC terminal
72	WE_FLASH	A flash memory note control signal (unused)
73	BUSY	The command receipt of a message lye Norwich output
74	REQ_PU	A communication demand to a module microcomputer
75	SEL23B	IC1703 (PE5064) control terminal
76	CLRB	IC1703 (PE5064) control terminal
77	FR_SEL	The free run select signal output
78	RST31B	The reset output to IC1301, IC1401 (PD6358)
79	RST23B	The reset output to IC1703 (PE5064)
80	FWE	Microcomputer program note control signal
81	RESET	Reset input
82	NMI	The at the rate of tang input (unused)
83	STBY	The hardware standby input (unused)
84	VCC	3.3V power supply
85	XTAL	A clock oscillation child connection terminal
86	EXTAL	A clock oscillation child connection terminal
87	VSS	GND
88	PF7	NC terminal
89	VCC	3.3V power supply
90	PF6	NC terminal
91	RDB	A read control terminal from an outside slave device
92	HWRB	A wright control terminal to an outside slave device
93	PF3	NC terminal
94	PF2	NC terminal
95	PF1	NC terminal
96	PF0	NC terminal
97	P50	NC terminal
98	P51	NC terminal
99	VSS	GND
100	VSS	GND
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● Pin Function (3/3)

No.	Pin Name	Function
101	P52	NC terminal
102	P53	NC terminal
103	AVCC	3.3V power supply
104	VREF	A/D, D/A reference voltage input (unused)
105	STOPB	The drive control input from IC1703 (PE5064)
106	P41	NC terminal
107	RYBY	The flash memory note ready input
108	ADR_K_EMG_L1	The emergency input from panel bottom address resonance block
109	ADR_K_EMG_U1	The emergency input from panel upper address resonance block
110	ADR_K_EMG_L2	The emergency input from panel bottom address resonance block (unused)
111	ADR_K_EMG_U2	The emergency input from panel upper address resonance block (unused)
112	P47	NC terminal
113	AVSS	GND
114	VSS	GND
115	MUTE_ADR	The panel mute signal input
116	MUTE_SUS	The X and Y drive mute signal output (unused)
117	P15	NC terminal
118	HD	The HD signal input from outside Assy (RGB Assy etc.)
119	P13	NC terminal
120	P12	NC terminal
121	PC_VIDEO	The PC/Video identification output
122	VD	The HD signal input from outside Assy (RGB Assy etc.)
123	MD0	The microcomputer mode of operation select signal input
124	MD1	The microcomputer mode of operation select signal input
125	MD2	The microcomputer mode of operation select signal input
126	PG0	NC terminal
127	CS_31Y	IC1301, IC1401 (PD6358) control signal
128	CS_31X	IC1301, IC1401 (PD6358) control signal

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■ PE1012A (X DRIVEASSY : IC3003)

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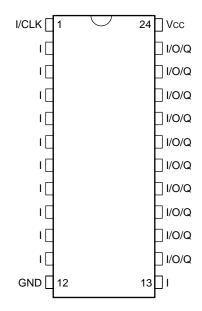
Drive Protect PLD

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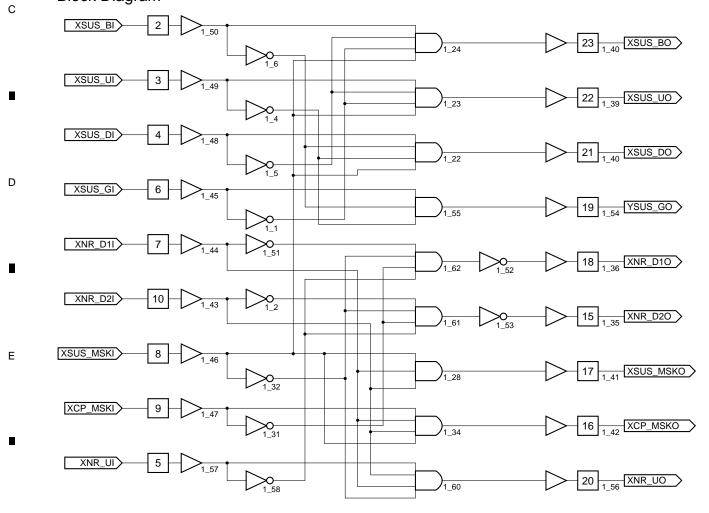
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● Pin Assignment (Top View)



Block Diagram



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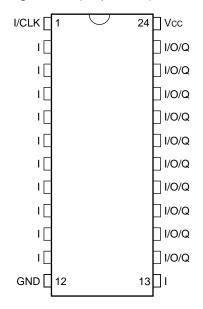
PDP-433PU

■ PE1013B (Y DRIVEASSY : IC2006)
Drive Protect PLD

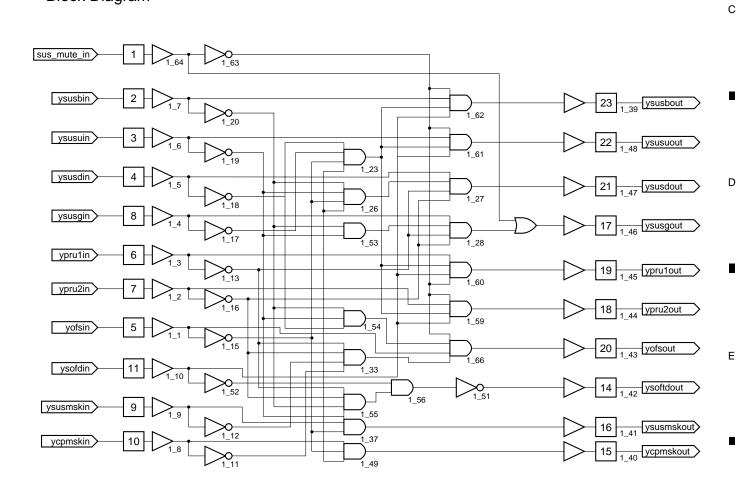
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Pin Assignment (Top View)

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Block Diagram



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■ M30624FGAFP (DIGITAL VIDEO ASSY : IC1207) Module Microcomputer

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● Pin Function (1/2)

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	Pin Name	Function
1	TXD	Serial 3 line data output for communication with a panel microcomputer
2	CLK	Serial 3 line clock for communication with a panel microcomputer
3	NC	NC terminal
4	NC	NC terminal
5	NC	NC terminal
6	NC	NC terminal
7	NC	NC terminal
8	BYTE	The external data bus width reshuffling input (I am unused and connect GND)
9	CNVSS	A power supply for program note (a note, 5V, usually, pull-down
10	XCIN	NC terminal
11	XCOUT	NC terminal
12	RESET	A reset input terminal
13	XOUT	Clock output terminal
14	VSS	GND
15	XIN	Clock input terminal
16	VCC	5V standby power
17	NMI	Because a NMI interruption terminal is unused, It handle pull up.
18	REM	The SR signal input
19	REQ_PU	A communication demand from a panel microcomputer (the pulse meter acquisition
20	/SW_TRG	Main switch OFF / ON search
21	NC	NC terminal
22	NC	NC terminal
23	NC	NC terminal
24	AC_OFF	AC power OFF search and power supply ASSY differentiation.
25	PD_TRIGGER	Power down search
26	NC	NC terminal
27	NC	NC terminal
28	NC	NC terminal
29	SCL	EEPROM, IIC communication with power supply ASSY
30	SDA	EEPROM, IIC communication with power supply ASSY
31	TXD1	Communication with the outside (a program note)
32	RXD1	Communication with the outside (a program note)
33	CLK1	Communication with the outside (a program note)
34	BUSY1	Communication with the outside (a program note)
35	TXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
36	RXD0	Communication with outside ASSY (microcomputers main in RGB ASSY, etc)
37	NC	NC terminal
38	REQ_MD/A_MUTE	232C communication demand (a request to a main microcomputer) / audio system mute
39	NC	NC terminal
40	NC	NC terminal
41	EPM	The EPM input for program note (L fixation)
42	NC NC	NC terminal
43	PU_CE	Enables/ for panel microcomputer
44	NC	NC terminal
45	MOD_SW/A_NG	The model of machines distinction input / audio system NG input
46	CE DITHER/SW STC	The CE input for program note (H fixation)
4-7	DITHER/SW_STC	Power supply search of a dither setting / media receiver for module
47	NO	NO transfer I
47 48 49	NC /SW_STP	NC terminal Power supply search of a panel

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● Pin Function (2/2)

No.	Pin Name	Function
51	NC	NC terminal
52	RELAY	The output for power supply ON / OFF change
53	POWER/MSTATE	Input / SII861 master information for power supply ON / OFF change
54	NC	NC terminal
55	WE_PN	Buffer state control for panel microcomputer note
56	MD0	The panel microcomputer mode of operation change output
57	MD2	The panel microcomputer mode of operation change output
58	FWE	The panel microcomputer program note control signal output
59	RST_PU	The panel microcomputer reset output
60	PN_MUTE	The panel mute input
61	NC	NC terminal
62	VCC	5V standby power
63	NC	NC terminal
64	VSS	GND
65	NC	NC terminal
66	NC	NC terminal
67	/A_SCL	IIC clock for audio system
68	/A_SDA	IIC data for audio system
69	APD_MUTE	A mute signal of address series
70	ADR_K_PD	The address oscillatory system PD input
71	ADR_PD	The address series PD input
72	DCC_PD	The power supply system PD input
73	NC	NC terminal
74	NC	NC terminal
75	RST2	Panel microcomputer reset search
76	NC	NC terminal
77	/DDC_SCL	IIC communication with a media receiver
78	/DDC_SDA	IIC communication with a media receiver
79	NC	NC terminal
80	NC	NC terminal
81	DEW_DET	The dew condensation sensor input
82	NC	NC terminal
83	NC	NC terminal
84	NC	NC terminal
85	NC	NC terminal
86	LED_G	Green LED lighting (LED on interface ASSY in a panel module)
87	LED_R	Red LED lighting (LED on interface ASSY in a panel module)
88	NC NC	NC terminal
89	BUSY	Communication permission / inhibiting signal from a panel microcomputer
90	NC	NC terminal
91	NC	NC terminal
92	/F_KEY1	The front KEY input
93	MAX_PLS2/F_KEY2	The terminal / front KEY input for brightness setting mode of operation change
94	TEMP1	The A/D input for temperature sensor
95	MAX_PLS? /CCKM	Terminal / connection search for brightness setting mode of operation change
96	AVSS	GND for AD conversion
97	PM_ST	The A/D input for model of machines distinction
98	VREF	Reference voltage for AD conversion
99	AVCC	5V standby power for AD conversion
100	RXD	Serial 3 line data entry for communication with a panel microcomputer

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■ PD6358A (DIGITAL VIDEO ASSY : IC1301, IC1401) Picture Improved IC

• Pin Function (1/7)

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No.	Pin Name	Function
1	VSS	GND
2	TESTO6	Test output terminal (unused)
3	OSDCLK	The CLK input for OSD
4	TTST	Test input terminal (unused)
5	VDDI	2.5V power supply
6	OVDDE-01	3.3V power supply
7	AGO0	Address data output (G signal)
8	VDDI	2.5V power supply
9	AGO2	Address data output (G signal)
10	AGO3	Address data output (G signal)
11	AGO4	Address data output (G signal)
12	VDDI	2.5V power supply
13	ARO6	Address data output (R signal)
14	AGO7	Address data output (G signal)
15	VDDI	2.5V power supply
16	ARO9	Address data output (R signal)
17	ABO9	Address data output (B signal)
18	VDDI	2.5V power supply
19	ADRCLKO2	The address CLK output (for panel upper part)
20	ARO12	Address data output (R signal)
21	ARO13	Address data output (R signal)
22	AGO14	Address data output (G signal)
23	AGO15	Address data output (G signal)
24	ARO16	Address data output (R signal)
25	ARO17	Address data output (R signal)
26	VSS	GND
27	ABO17	Address data output (B signal)
28	AGO17	Address data output (G signal)
29	AGO18	Address data output (G signal)
30	ABO19	Address data output (B signal)
31	UDAT15	Microcomputer data bus
32	UDAT12	Microcomputer data bus
33	UDAT9	Microcomputer data bus
34	UDAT5	Microcomputer data bus
35	OVDDE-06	3.3V power supply
36	APLP	APL value output trigger signal
37	OVDDE-08	3.3V power supply
38	CS5BI	The chip select input
39	CS4BI	The chip select input
40	UADRI13	Microcomputer address bus
41	UADRI9	Microcomputer address bus
42	UADRI6	Microcomputer address bus
43	UADRI2	Microcomputer address bus
44	UADRI1	Microcomputer address bus
45	TESTI2	Test input terminal (unused)
46	BIT0	The subfield No output (the 0 bit)
47	OVDDE-11	3.3V power supply
48	TESTO4	Test output terminal (unused)
49	ARO39	Address data output (G signal)
50	AGO38	Address data output (G signal)

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● Pin Function (2/7)

No.	Pin Name	Function
51	VSS	GND
52	ABO37	Address data output (B signal)
53	ABO36	Address data output (B signal)
54	ARO36	Address data output (R signal)
55	ABO34	Address data output (B signal)
56	ADRCLKO4	The address CLK output (for panel bottom part)
57	AGO33	Address data output (G signal)
58	AGO32	Address data output (G signal)
59	AGO31	Address data output (G signal)
60	AGO30	Address data output (G signal)
61	AGO29	Address data output (G signal)
62	VDDI	2.5V power supply
63	ABO27	Address data output (B signal)
64	AGO26	Address data output (G signal)
65	VDDI	2.5V power supply
66	AGO24	Address data output (G signal)
67	VDDI	2.5V power supply
68	ABO22	Address data output (B signal)
69	VDDI	2.5V power supply
70	ARO21	Address data output (R signal)
71	ARO20	Address data output (R signal)
72	VDDI	2.5V power supply
73	OVDDE-14	3.3V power supply
74	TDI	The JTAG input
75	RBI9	The R picture B aspect signal input (the ninth bit)
76	VSS	GND
77	RBI8	The R picture B aspect signal input (the eighth bit)
78	RBI6	The R picture B aspect signal input (the sixth bit)
79	RBI4	The R picture B aspect signal input (the fourth bit)
80	OVSS-09	GND
81	RSTB	Reset input
82	GBI8	The G picture B aspect signal input (the eighth bit)
83	OVDDE-18	3.3V power supply
84	GBI5	The G picture B aspect signal input (the fifth bit)
85	GBI2	The G picture B aspect signal input (the second bit)
86	DEI	DE signal input
87	BBI6	The B picture B aspect signal input (the sixth bit)
88	BBI3	The B picture B aspect signal input (the third bit)
89	VDI	VD signal input
90	HDI	HD signal input
91	RAI6	The R picture A aspect signal input (the sixth bit)
92	RAI2	The R picture A aspect signal input (the second bit)
93	TESTI0	Test input terminal (unused)
94	OVSS-11	GND
95	GAI7	The G picture A aspect signal input (the seventh bit
96	GAI7	The G picture A aspect signal input (the seventir bit The G picture A aspect signal input (the third bit)
96		
	GAI0	The G picture A aspect signal input (the 0 bit)
98	BAI6	The B picture A aspect signal input (the sixth bit)
99	BAI3	The B picture A aspect signal input (the third bit)
100	BAI0	The B picture A aspect signal input (the 0 bit)

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● Pin Function (3/7)

No.	Pin Name	Function
101	TESTO7	Test output terminal (unused)
102	TESTO5	Test output terminal (unused)
103	OSDH	OSDH input
104	BLK	OSDBLK input
105	OSDB	OSDB signal input
106	NC	NC terminal
107	ARO1	Address data output (R signal)
108	ARO2	Address data output (R signal)
109	ARO3	Address data output (R signal)
110	ARO4	Address data output (R signal)
111	ARO5	Address data output (R signal)
112	ABO5	Address data output (B signal)
113	ARO7	Address data output (R signal)
114	ARO8	Address data output (R signal)
115	ABO8	Address data output (B signal)
116	AGO9	Address data output (G signal)
117	AGO10	Address data output (G signal)
118	ADRCLKO1	Address CLK output (for panel upper part)
119	ABO11	Address data output (B signal)
120	ABO12	Address data output (B signal)
121	ARO14	Address data output (R signal)
122	ARO15	Address data output (R signal)
123	ABO15	Address data output (B signal)
124	ABO16	Address data output (B signal)
125	AGO16	Address data output (G signal)
126	ARO18	Address data output (R signal)
127	AGO19	Address data output (G signal)
128	OVDDE-05	3.3V power supply
129	UDAT13	Microcomputer data bus
130	UDAT10	Microcomputer data bus
131	UDAT6	Microcomputer data bus
132	UDAT3	Microcomputer data bus
133	UDAT0	Microcomputer data bus
134	OVDDE-07	3.3V power supply
135	LR	The panel LR select input
136	RDBI	Microcomputer read control terminal
137	CLKSEL	CLK select input
138	UADRI10	Microcomputer address bus
139	UADRI7	Microcomputer address bus
140	UADRI3	Microcomputer address bus
141	CYCLEB	Address data output control signal
142	BIT2	Subfield No. output (the second bit)
143	SFSTB	Address data output control signal
144	OVSS-05	GND
145	TESTO2	Test output terminal (unused)
146	ABO38	Address data output (B signal)
147	ARO38	Address data output (R signal)
148	ARO37	Address data output (R signal)
149	AGO36	Address data output (G signal)
150	ARO35	Address data output (R signal)
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● Pin Function (4/7)

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No.	Pin Name	Function
151	ADRCLKO3	The address CLK output (for panel bottom part)
152	ABO33	Address data output (B signal)
153	ABO32	Address data output (B signal)
154	VDDI	2.5V power supply
155	ABO30	Address data output (B signal)
156	VDDI	2.5V power supply
157	ABO28	Address data output (B signal)
158	ARO28	Address data output (R signal)
159	ABO26	Address data output (B signal)
160	ABO25	Address data output (B signal)
161	ABO24	Address data output (B signal)
162	ARO24	Address data output (R signal)
163	ARO23	Address data output (R signal)
164	ARO22	Address data output (R signal)
165	AGO21	Address data output (G signal)
166	AGO20	Address data output (G signal)
167	TDO	JTAG signal
168	TMS	JTAG signal
169	RBI7	The R picture B aspect signal input (the seventh bit)
170	TCK	JTAG signal
171	RBI5	The R picture B aspect signal input (the fifth bit)
172	RBI3	The R picture B aspect signal input (the third bit)
173	RBI1	The R picture B aspect signal input (the first bit)
174	OVDDE-16	3.3V power supply
175	GBI7	The G picture B aspect signal input (the seventh bit)
176	OVSS-10	GND
177	GBI4	The G picture B aspect signal input (the fourth bit)
178	GBI1	The G picture B aspect signal input (the first bit)
179	BBI9	The B picture B aspect signal input (the ninth bit)
180	BBI5	The B picture B aspect signal input (the fifth bit)
181	BBI2	The B picture B aspect signal input (the second bit)
182	RAI9	The R picture A aspect signal input (the ninth bit)
183	CLK3	CLK input terminal (unused)
184	RAI5	The R picture A aspect signal input (the fifth bit)
185	RAI1	The R picture A aspect signal input (the first bit)
186	TESTI1	Test input terminal (unused)
187	GAI9	The G picture A aspect signal input (the ninth bit)
188	GAI6	The G picture A aspect signal input (the sixth bit)
189	GAI2	The G picture A aspect signal input (the second bit)
190	BAI9	The B picture A aspect signal input (the ninth bit)
191	BAI5	The B picture A aspect signal input (the fifth bit)
192	BAI2	The B picture A aspect signal input (the second bit)
193	BAI1	The B picture A aspect signal input (the first bit)
194	OVSS-01	GND
195	OVSS-02	GND
196	OSDG	OSDG signal input
197	ARO0	Address data output (R signal)
198	ABO0	Address data output (B signal)
199	ABO1	Address data output (B signal)
200	ABO2	Address data output (B signal)

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● Pin Function (5/7)

No.	Pin Name	Function
201	ABO3	Address data output (B signal)
202	ABO4	Address data output (B signal)
203	OVDDE-02	3.3V power supply
204	ABO6	Address data output (B signal)
205	ABO7	Address data output (B signal)
206	VDDI	2.5V power supply
207	OVDDE-03	3.3V power supply
208	ARO10	Address data output (R signal)
209	ABO10	Address data output (B signal)
210	AGO11	Address data output (G signal)
211	AGO12	Address data output (G signal)
212	ABO13	Address data output (B signal)
213	ABO14	Address data output (B signal)
214	OVDDE-04	3.3V power supply
215	OVSS-03	GND
216	ARO19	Address data output (R signal)
217	TESTO1	Test output terminal (unused)
218	UDAT14	Microcomputer data bus
219	UDAT11	Microcomputer data bus
220	UDAT7	Microcomputer data bus
221	UDAT4	Microcomputer data bus
222	UDAT1	Microcomputer data bus
223	VDRD	V signal output
224	HWRBI	Microcomputer wright control terminal
225	UADRI14	Microcomputer address bus
226	OVDDE-09	3.3V power supply
227	UADRI11	Microcomputer address bus
228	UADRI8	Microcomputer address bus
229	UADRI4	Microcomputer address bus
230	BIT3	Subfield No. output (the third bit)
231	BIT1	Subfield No. output (the first bit)
232	OVDDE-10	3.3V power supply
233	TESTO3	Test output terminal (unused)
234	ABO39	Address data output (B signal)
235	AGO37	Address data output (G signal)
236	OVSS-06	GND
237	AGO35	Address data output (G signal)
238	ADRCLKO5	Address CLK output (for panel bottom part)
239	ARO34	Address data output (R signal)
240	ARO33	Address data output (R signal)
241	ABO31	Address data output (B signal)
242	ARO31	Address data output (R signal)
243	ABO29	Address data output (B signal)
244	ARO29	Address data output (R signal)
245	OVDDE-12	3.3V power supply
246	ARO27	Address data output (R signal)
247	ARO26	Address data output (R signal)
248	ARO25	Address data output (R signal)
249	OVDDE-13	3.3V power supply
250	AGO23	Address data output (G signal)

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● Pin Function (6/7)

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No.	Pin Name	Function	
251	AGO22	Address data output (G signal)	
252	VDDI	2.5V power supply	
253	ABO20	Address data output (B signal)	
254	OVSS-07	GND	
255	OVDDE-15	3.3V power supply	
256	OVSS-08	GND	
257	RBI2	The R picture B aspect signal input (the second bit)	
258	TRST	JTAG signal	
259	GBI9	The G picture B aspect signal input (the ninth bit)	
260	GBI6	The G picture B aspect signal input (the sixth bit)	
261	OVDDE-17	3.3V power supply	
262	GBI3	The G picture B aspect signal input (the third bit)	
263	GBI0	The G picture B aspect signal input (the 0 bit)	
264	BBI8	The B picture B aspect signal input (the eighth bit)	
265	BBI4	The B picture B aspect signal input (the fourth bit)	
266	BBI1	The B picture B aspect signal input (the first bit)	
267	RAI8	The R picture A aspect signal input (the eighth bit)	
268	OVDDE-19	3.3V power supply	
269	RAI4	The R picture A aspect signal input (the fourth bit)	
270	RAI0	The R picture A aspect signal input (the 0 bit)	
271	FREERUN	The freerun control input	
272	GAI8	The G picture A aspect signal input (the eighth bit)	
273	GAI5	The G picture A aspect signal input (the fifth bit)	
274	GAI1	The G picture A aspect signal input (the first bit)	
275	BAI8	The B picture A aspect signal input (the eighth bit)	
276	BAI4	The B picture A aspect signal input (the fourth bit)	
277	VDDE	3.3V power supply	
278	OSDV	OSDV input	
279	VSS	GND	
280	OSDR	OSDR signal input	
281	VDDE	3.3V power supply	
282	AGO1	Address data output (G signal)	
283	VSS	GND	
284	VDDI	2.5V power supply	
285	VDDI	2.5V power supply	
286	AGO5	Address data output (G signal)	
287	AGO6	Address data output (G signal)	
288	VDDI	2.5V power supply	
289	AGO8	Address data output (G signal)	
290	VSS	GND	
291	ADRCLKO0	The address CLK output (for panel upper part)	
292	VDDE	3.3V power supply	
293	ARO11	Address data output (R signal)	
294	VSS	GND	
295	AGO13	Address data output (G signal)	
295	VDDE	3.3V power supply	
296	ABO18	Address data output (B signal)	
298	VSS	GND	
298	TESTO0	Test output terminal (unused)	
299	VDDI	2.5V power supply	

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● Pin Function (7/7)

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No.	Pin Name	Function
301	UDAT8	Microcomputer data bus
302	VSS	GND
303	UDAT2	Microcomputer data bus
304	VDDI	2.5V power supply
305	OVSS-04	GND
306	UADRI15	Microcomputer address bus
307	VDDI	2.5V power supply
308	UADRI12	Microcomputer address bus
309	VSS	GND
310	UADRI5	Microcomputer address bus
311	VDDI	2.5V power supply
312	NC	NC terminal
313	VSS	GND
314	AGO39	Address data output (G signal)
315	VDDE	3.3V power supply
316	ABO35	Address data output (B signal)
317	VSS	GND
318	AGO34	Address data output (G signal)
319	VDDE	3.3V power supply
320	ARO32	Address data output (R signal)
321	VSS	GND
322	ARO30	Address data output (R signal)
323	VDDI	2.5V power supply
324	AGO28	Address data output (G signal)
325	AGO27	Address data output (G signal)
326	NC	NC terminal
327	AGO25	Address data output (G signal)
328	VSS	GND
329	ABO23	Address data output (B signal)
330	VDDE	3.3V power supply
331	ABO21	Address data output (B signal)
332	VSS	GND
333	VPD	GND
334	VDDE	3.3V power supply
335	RBI0	The R picture B aspect signal input (the 0 bit)
336	VSS	GND
337	ACLK	CLK input (25MHz)
338	VDDI	2.5V power supply
339	CLK4	CLK input (50MHz)
340	VSS	GND
341	BBI7	The B picture B aspect signal input (the seventh bit)
342	VDDI	2.5V power supply
343	BBI0	The B picture B aspect signal input (the 0 bit)
344	RAI7	The R picture A aspect signal input (the seventh bit)
345	VDDI	2.5V power supply
346	RAI3	The R picture A aspect signal input (the third bit)
347	VSS	GND
348	CLK2	The image system CLK input
349	VDDI	2.5V power supply
350	GAI4	The G picture A aspect signal input (the fourth bit)
351	VSS	GND
352	BAI7	The B picture A aspect signal input (the seventh bit)

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■ PST9246N (DIGITAL VIDEO ASSY: IC1208) Drive Protect PLD

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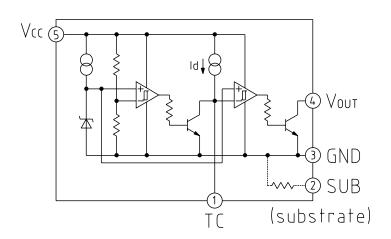
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Pin Assignment (Top View)

Vout Vcc 5 4 3 TC SUB GND SOT-25 (TOP VIEW)

Block Diagram

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Pin Function

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Pin No.	Pin name	Functions
1	TC	TPLH control pin
2	SUB	Substate pin
3	GND	GND pin
4	Vouт	Reset signal output pin
5	Vcc	Vcc pin / voltage detect pin

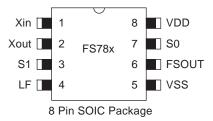
PDP-433PU

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■ FS781BZB (DIGITAL VIDEO ASSY: IC1802)

Low EMI Clock IC

Pin Assignment (Top View)



Block Diagram

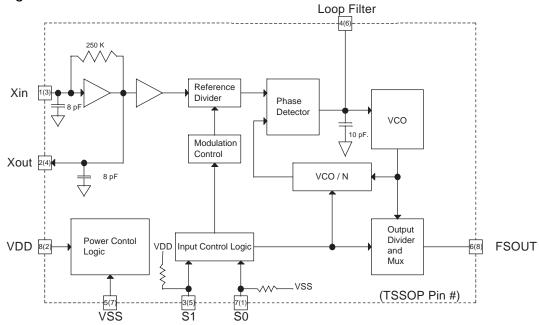
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Pin Function

No.	Pin Name	I/O	Туре	Function
1/2	Xin/Xout	I/O	Analog	Pins form an on-chip reference oscillator when connected to terminals of an external parallel resonant crystal. Xin may be connected to TTL/CMOS external clock source. If Xin connected to external clock other than crystal, leave Xout (pin2) unconnected.
7/3	S0/S1	ı	CMOS/TTL	Digital control inputs to select input frequency range and output frequency scaling. Refer to Tables 7 and 8 for selection. S0 has internal pulldown. S1 has internal pullup.
4	LF	ı	Analog	Loop Filter. Single ended tri-state output of the phase detector. A two-pole passive loop filter is connected to Loop Filter (LF).
6	FSOUT	0	CMOS/TTL	Modulated Clock Frequency Output. The center frequency is the same as the input reference frequency for FS781. Input frequency is multipled by 2X and 4X for FS782 and FS784 respectively.
8	VDD	Р	Power	Positive Power Supply
5	VSS	Р	Power	Power Supply Ground

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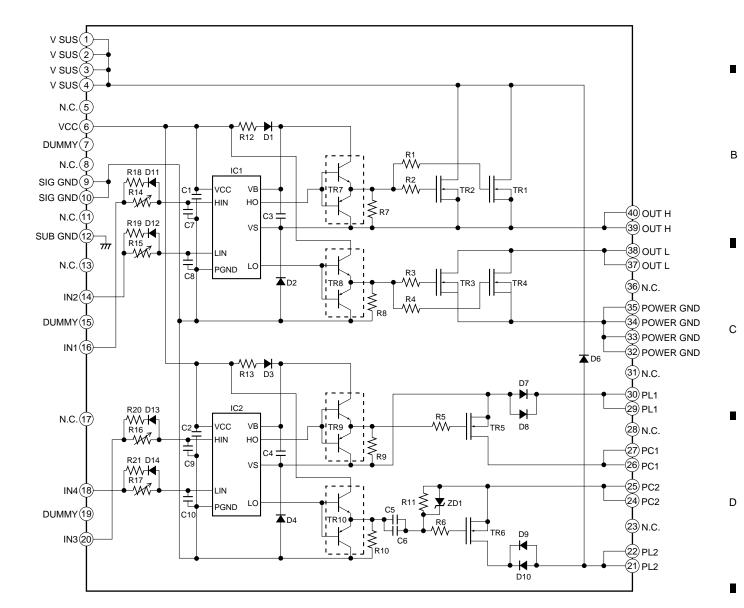
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■ STK795-470 (X DRIVE ASSY: IC3200, IC3201, Y DRIVE ASSY: IC2206, IC2214) **PDP Pulse Module IC**

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Block Diagram

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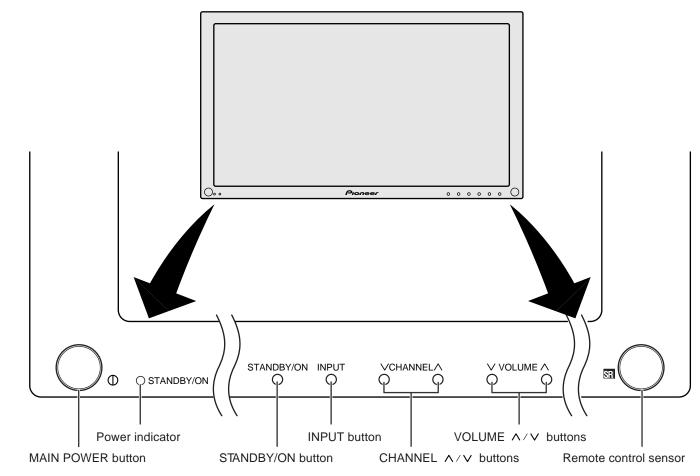
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8. PANEL FACILITIES

Plasma Display



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